



MR.HSE.ENV.1.ECCOMP

Date: 01st Jul-2025

To

Shri. Kanwarjit Singh, IFS

Additional Principal Chief Conservator of Forest,
Ministry of Environment Forest & Climate Change,
Regional Office (WCZ), Ground Floor,
East Wing, New Secretariat Building,
Civil Line, Nagpur-440001
Email: apccfcentral-ngp-mef@gov.in

Sub: Submission of Six Monthly Compliance report for the period of Oct-2024 to Mar-2025

Dear Sir,

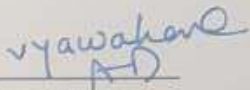
We, Bharat Petroleum Corporation Ltd. (BPCL), Mumbai Refinery, would like to bring to your kind attention that we are facing an issue with the online entry of six-monthly Environmental Clearance Compliance Report on the PARIVESH Portal for the reporting period of Oct-2024 to Mar-2025. The issue is being addressed.

In the meantime, please find enclosed the six-monthly Compliance Report for the reporting period Oct-2024 to Mar-2025 for Environmental Clearances (ECs) pertaining to the projects of BPCL Mumbai Refinery in Maharashtra, for your kind reference.

Thanking you,

Yours Faithfully,

For Bharat Petroleum Corporation Ltd.,


Atul Vyawahare
General Manager
(Environment, PSM & QMS, Mumbai Refinery)

Encl: EC Compliance report

CC:

1. Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd floor Sion, Mumbai-400022
2. SRO-III, Maharashtra Pollution Control Board, Kalpataru Point, 2nd floor, Sion, Mumbai-400022

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Half Yearly EC Compliance Report

Period: Oct-2024 to Mar-2025

BPCL Mumbai Refinery

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Compliance Status Report for Gasoline Hydro Treatment Unit (GTU) (0.9 MMTPA) & associated facilities to produce 100% BS-VI MS

EC Letter no. J-11011/98/2016-IA-II(I) dated 20th March 2017

Consent To Operate (CTO) for Gasoline Treatment Unit (GTU) amalgamated with existing refinery CTO has been received from Maharashtra Pollution Control Board (MPCB) on 13th Sept-2019.

GTU plant was commissioned in Oct 2019.

As per the stipulations given in the Environmental Clearance for Gasoline Hydro Treatment Unit (GTU) (0.9 MMTPA) & its associated facilities to produce 100% BS-VI MS, the detailed compliance status is given below:

A. SPECIFIC CONDITIONS :

Sr. No.	Specific Condition	Status for Period of Oct-2024 to Mar-2025
i.	M/s BPCL shall comply with new standards/norms for Oil Refinery Industry notified under the Environment (Protection) Rules,1986 vide G.S.R. 186(E) dated 18 th March,2008	Complied
ii.	Compliance to all the environmental conditions stipulated in the environmental clearance letter no. J J-11011/582/2011-IA II (I) dated 7 th June'2013, letter no. J-11011/140/2012-IA II (I) dated 12 th June 2013, letter no.-J-11011/270/2013-IA II (I) dated 8 th August 2014 and letter no. J-11011/21/2013-IA II (I) dated 13 th August 2015, shall be satisfactorily implemented and compliance reports submitted to the Ministry's Regional Office.	Complied Compliance reports are being uploaded on PARIVESH portal on 6 monthly basis.
iii.	Continuous on-line stack monitoring for SO ₂ , NO _x and CO of all the stacks shall be carried out. Low NO _x burners shall be installed.	The following features at GTU ensure process emissions to confirm to the standards prescribed under EPA • Air preheater provided for improving efficiency • Provision of stack dampers, on-line indication for stack temperature, excess O₂ • Stacks of adequate height • Analyzers have been installed at GTU stacks for continuous on-line monitoring of SO₂, NO_x CO and PM. • Low NO_x burners have been installed at two furnaces of GTU. Similarly, all stacks in BPCL MR have been provided with analyzers for continuous online monitoring of SO _x , NO _x , CO & SPM. Stack analyzers are connected to MPCB and CPCB servers for real time data transmission.

iv.	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Besides, acoustic enclosure/silencer shall be installed wherever noise levels exceed the limit.	Noted Power is supplied to GTU unit from existing Captive Power Plant at Mumbai Refinery or shall be imported from Tata Electric Company, if required. Additional DG set is not required for GTU unit and Existing refinery DG set is not operating continuously. It supplies power to critical equipment's in the refinery only in case of total power failure.
v.	Fresh water requirement from MCGM shall not exceed 15950 m ³ /day. After expansion and prior permission shall be obtained from competent authority. About 300 m ³ /hr of cooling water blow down will be discharged to sea.	Noted
vi.	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MoEF & CC. Outcome from the report to be implemented for conservation scheme.	Noted
vii	Automatic/online monitoring system (24 X 7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB, Regional Office of MoEF&CC and in the Company's website.	Noted On line analyzers have been provided at Effluent Treatment Plant outlet for measuring PH, BOD, COD & TSS with continuous connectivity to CPCB/ MPCB servers. ETP outlet water is 100% recycled to raw cooling water towers make up.
viii	The Company should strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. Hazardous waste should be disposed of as per Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and amended time to time.	Complied Hazardous Waste is disposed of as and when generated as per Hazardous waste rules and as per Consent to Operate issued by MPCB to MPCB approved Recycler party M/s MWML (Mumbai Waste Management Ltd.). (Refer Annexure-1: Membership Certificate of M/s MWML). Hazardous Waste annual return form (Form-IV) is filled up every year before 30th June of every year for previous financial year. For 2024-25, Form- IV was filled on 26th June-2025. Please refer Annexure-2.
ix.	Acoustic enclosure/silencer shall be installed wherever it is possible.	Noted
x.	Occupational Health Surveillance of the workers should be done on regular basis and records maintained as per the Factories Act.	Noted Periodic Health check-up for employees is carried out regularly.

xi.	Green belt over 33% area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	Noted GTU unit is within the premises of existing Mumbai refinery. Tree plantation is being carried out in and around Chembur / Mumbai to mitigate the effect of emissions. - In the year 2014-15, 10000 tree saplings were planted at various locations around Mumbai (Among these saplings, 3000 were planted at AMPC Vashi to develop four acres of green belt in the heart of Navi Mumbai. Refer Annexure- 3: Certificate from APMC Vashi). - In 2016-17, more than 3000 trees were planted at MIDC area at Taloja. (Refer Annexure- 4: Certificate from M/s Mumbai Waste Management Limited (MWML)). - In 2017-18, 5000 Trees were planted at Thane Municipal Corporation in the year 2017. (Refer Annexure- 5: Certificate from TMC, Thane). - In 2018-19, more than 1350 saplings were planted at Marine Oil Terminal area, MBPT area, inside BPCL refinery and National Park Borivali. - In 2019-20, a total of 10000 tree saplings were planted at different locations around Mumbai regions through M/s CERE and all the trees were Geo-tagged. (Refer Annexure- 5a: Certificate M/s CERE) - In 2020-21, a total of 300 tree saplings were planted at Mumbai through M/s Unique Pest Control. - In 2021-22, a total of 1000 tree saplings were planted using MIYAWAKI METHOD at LTT Railway Station Mumbai through M/s Green Yatra. Also, a total of 145 number of trees of native species were planted at Trees for Tigers, Panna, Tiger Reserve, Madhya Pradesh, India through M/s Grow Trees. - In 2022-23 around 3200 trees have been planted by BPCL MR at Station 6, Sewree and Swami Vivekanand College locations. (Refer Annexure- 5b & c)
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		- In 2023-24 around 2000 trees have been planted using Miyawaki method at NITIE college campus. - In 2024-25, around 500 trees have been planted in Murbad and Mumbai Region.
xii.	The company should make the arrangement for protection of possible fire and explosion hazards during construction and operation phase. To prevent fire and explosion at oil and gas facility, potential ignition sources shall be kept to a minimum and adequate separation distance between potential ignition sources and flammable materials shall be in place.	Noted
xiii.	All the recommendations motioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.	Noted As per risk assessment report, blast proof control room has been built up at GTU site. Hydrocarbon & H₂S meters has been installed at critical locations.
xiv.	At least 2% of the total cost of the project shall be earmarked towards the Enterprises Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry Of Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner.	Noted
xv.	Zero liquid discharge to be ensured.	Noted There is no additional requirement of fresh water and no additional generation of effluent from GTU project. ETP outlet water is 100% recycled to process cooling towers.

B.GENERAL CONDITIONS:

Sr. No.	General Condition	Status for Period of Oct-2024 to Mar-2025
i.	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board (SPCB), State Government and any other statutory authority.	Noted
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposed from those submitted to this	Noted

	Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Three Ambient Air Quality Monitoring Stations are existing in the refinery for on-line monitoring of PM-10, PM-2.5, SO₂, NO_x, CO, Ammonia, Ozone analyzers per National Ambient Air Quality Standards (NAAQS). Real time AMS data is being transmitted to CPCB/ MPCB site. Also, online data of parameters namely Benzene, Toluene, O/M/P- Xylene and Methane & Non Methane hydrocarbon from AMS have been successfully connected and transmitted to MPCB and CPCB servers since 31st Dec 2018. Also, Mercaptan analyzer has been installed at AMS and data is being transmitted to MPCB/CPCB servers. As per MPCB, there is no additional requirement of Continuous Ambient Air Quality Monitoring Station for GTU project.
iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826 (E) dated 16 th November, 2009 shall be followed.	Noted Ambient Air quality data is being collected at three locations in the existing refinery (AMS-1/2/3). The quality is conforming to the standard as specified in the NAAQS.
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules and 1989 viz. 75 dBA (daytime) and 70 dBA (night time).	Noted Ambient Noise levels conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules. Also, sign painting is done for High Noise area and instructions have been mentioned to use PPEs.
vi.	The company shall harvest rain water from roof tops of the buildings and storm water drains to recharge the ground water and use the same waste for the process activities to the project to conserve fresh water.	Noted Rain water harvesting systems are provided at BPCL MR with roof top capacity of 69000 sqm. Details of total Rain water harvested are as below: 2016-17: 88 Thousand KL 2017-18: 65.7 Thousand KL 2018-19: 42.8 Thousand KL 2019-20: 71 Thousand KL

		2020-21: 67 Thousand KL 2021-22: 33 Thousand KL 2022-23: 51 Thousand KL 2023-24: 53 Thousand KL 2024-25: 62 Thousand KL
vii.	Training shall be imparted to all employees on safety & health aspects of chemicals handling. Pre –employment & routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Noted Safety trainings are carried out for BPCL employees as well as contractor employees which includes Hands on fire fighting, Behavior based safety training & safety in refining etc. Mandatory periodic health check is done for employees and also pre-employment check is carried out at BPCL medical center. Comprehensive safety training is provided to contractor staff during registration process by Fire & Safety Dept.
viii.	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management and risk mitigation measures relating to the project shall be implemented.	Noted
ix.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Noted CSR activities are conducted on regular basis for local villages which involves Cancer screening camp, Eye screening camp Blood donation camp, Public health center, Ambulance service during emergency, providing fish nets to local fishermen.
x.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Noted BPCL is providing scholarships to needy students through local schools. Also felicitates 10 th & 12 th std. students every year. Environment (HSSE) department carries out tree plantation and awareness functions in nearby schools as a part commitment towards sustainable environment. Various activities such as drawing/painting competitions, nukkad natak, LED bulb distribution, beach cleaning etc. carried out for "MISSION LIFE".
xi.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	There is no requirement of additional Laboratory for GTU Project. Existing BPCL Laboratory is used for GTU. Refinery has a full-fledged NABL approved Laboratory.

		BPCL refinery already has an Environment section to carry out environmental management and monitoring functions.
xii.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management / pollution control measures shall not be diverted for any other purpose.	Noted Various Environmental projects incurring capital expenditure are being carried out regularly.
xiii.	A copy of clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban local Body and the Local Body and the local NGO, if any from whom any suggestions / representations, if any, from whom suggestions / representations, if any, were received while processing the proposal.	Noted Environment Clearance letter has been put on the BPCL corporate website www.bharatpetroleum.in/EnergizingEnvironment/Health Safety & Environment / which is accessible to all. Environment Clearance letter is being sent to MPCB.
xiv.	The project proponent shall also submit six monthly reports on status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environment Clearance and six monthly compliance status report shall be posted on the website of the company.	Complied. Six monthly compliance statement is being uploaded on PARIVESH portal of MoEF&CC and soft copy is being sent to CPCB, and SRO/ RO office of MPCB through e-mail. The Environment Clearance and six monthly compliance report was also published on the BPCL corporate website.
xv.	The Environmental Statement for each financial year ending 31 st March in Form-V as is mandated to be submitted to the concerned State Pollution Control Board as prescribed under Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the web site of company along with compliance of Environmental Clearance conditions and shall also be sent to the respective Regional Office of MoEF&CC by e-mail.	Duly filled form V (Environment Statement) for every financial year is submitted to MPCB office before 30 th Sept of every assessment year. For 2023-24 also, Form-V was submitted to MPCB on 30 th Sep-2024. Please refer Annexure- 6.
xvi.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of	Complied Subsequent to obtaining Env. Clearance from MoEF for GTU, dt 20 th March-17, the same was published in two newspapers (Indian Express in English & Maharashtra Times Marathi) on 7 th of April 2017. Annexure- 7 & 8.

	the locality concerned and a copy of same shall be forwarded to the Regional Office of the Ministry.	
xvii.	The project authorities shall inform the Regional office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Noted

Compliance Status Report for Kerosene Treatment Unit (KHT) & integration with existing Diesel Hydro treatment Unit (DHT) along with revamp of DHT to produce 100% BS-VI grade fuel (Capacity 2.83 MMTPA of DHT)

EC Letter no. J-11011/21/2015-IA II (I) dated 30thMar-2021

As per stipulations given in the Environmental Clearance for Kerosene Treatment Unit (KHT) & integration with existing Diesel Hydro treatment Unit (DHT) along with revamp of DHT to produce 100% BS-VI grade fuel (Capacity 2.83 MMTPA of DHT).

DHT Plant was commissioned in Jan-2017 and KHT plant was commissioned in Feb-2023.

A. SPECIFIC CONDITIONS:

Sr. No.	Specific Condition	Status for Period of Oct-2024 to Mar-2025
i.	Compliance to all the environmental conditions stipulated in the environmental clearance letter no. J-11011/180/2008-IA II(I) dated 28 th April, 2008 , F.No.J-11011/140/2012-IA II I dated 12 th June 2013, J-11011/582/2011-IA II (I dated 7 th June 2013and J-11011/270/270/2013-IA (I) dated 8 th August 2014 , shall be satisfactorily implemented and compliance reports submitted to Ministry's regional office at Bhopal.	Compiled Compliance reports are uploaded on PARVISH portal of MoEF & on six monthly basis.
ii.	M/s BPCL shall comply with new standards/norms for Oil Refinery Industry notified under the Environment (Protection) Rules. 1986 vide G S R 186(E) dated 18 th March, 2008.	Complied
III.	Continuous on-line stack monitoring for SO ₂ , NO _x and CO of all the stacks shall be carried out. Low NO _x burners shall be installed.	KHT unit doesn't have furnace and stack. Analyzers are installed at DHT stacks for continuous on-line monitoring of SO ₂ , NO _x CO and PM. Low NO _x burners are provided.
iv	The process emissions [SO ₂ , NO _x , HC (Methane & No-methane)], VOCs and Benzene from various units shall conform to the standards prescribed under the Environment (Protection) Act. At no time the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency of the pollution control device has been achieved.	The following features at DHDT process emissions to conform with the standards prescribed under EPA - Fuel gas is fired in the furnaces. - Air pre-heater provided for improving efficiency - Provision of stack dampers, on-line indication for stack temperature, excess O₂. - Stacks of adequate height. At BPCL refinery, Ambient Air Quality monitoring is carried out on regular basis which includes parameters SO _x , NO _x , CO, O ₃ , NH ₃ , PM-10. PM-2.5, Hydrocarbon. Also analyzers have been installed at each AMS for transmitting data to MPCB/ CPCB server.
v.	Leak Detection and Repair program shall be prepared and implemented to control HC/VOC	LDAR program is already being followed in the existing refinery as per GSR-186 (E).

	emissions. Focus shall be given to prevent fugitive emission for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to. Fugitive emissions of HC from product storage tank yard etc. must be regularly monitored. Sensors for detecting HC leakage shall be provided at strategic locations.	Compressors, exchangers, pumps, valves, equipment's, etc. are being regularly monitored for identifying VOC emissions and rectifying the identified leaks. HC leak detectors are provided in the plant area at strategic locations. Preventive maintenance schedule exists for all critical pumps / compressors and is being adhered to. Please refer Annexure-8 for typical LDAR report of BPCL Mumbai Refinery.
vi.	SO ₂ emissions after expansion from the plant shall not exceed 10.44 TPD, Sulphur recovery units shall be installed for control of H ₂ S emissions.	Noted
vii	As proposed, record of sulphur balance shall be maintained at the Refinery as part of the environmental data on regular basis. The basic component of sulphur balance include sulphur input through feed (sulphur content in crude oil), sulphur output from Refinery through products, byproduct (elemental sulphur), atmospheric emissions etc.	Noted
viii	Ambient air quality monitoring stations, [PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , H ₂ S, mercaptan, non-methane-HC and Benzene] shall be set up in the complex in consultation with Maharashtra Pollution Control Board, based on occurrence of maximum ground level concentration and down-wind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs.	Three Ambient Air Quality Monitoring Stations are existing in the refinery. On-line monitoring of PM-10, PM-2.5, SO ₂ , NO _x , H ₂ S, CO, Methanic & non methanic hydrocarbons, benzene, Ammonia, Ozone etc. is being carried out as per National Ambient Air Quality Standards (NAAQS). Real time data is continuously sent to CPCB / MPCB site.
ix	Ambient air quality data shall be collected as per NAAQEA standards notified by the Ministry on 16 th November, 2009 and trend analysis w.r.t. past monitoring results shall also be carried out. Adequate measures based on the trend analysis shall be taken to improve the ambient air quality in the project area.	Ambient air quality data is being collected at three locations in the existing refinery through third party. The quality is conforming with the standard as specified in the NAAQS. Please refer Annexure-9 for typical AAQMS report of BPCL Mumbai Refinery.
x.	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Besides, acoustic enclosure/silencer shall be installed wherever noise levels exceed the limit.	Noted Power is supplied to DHT/KHT units from existing Captive Power Plant (CPP) at the Refinery. Additional requirement of power shall be imported from Tata Electric Company. Additional DG set is not required for DHT/KHT units.
xi.	Total fresh water requirement from Municipal Corporation of Greater Mumbai after expansion	Noted

	shall not exceed 16,100m ³ /day. After expansion and prior to permission shall be obtained from competent authority.	
xii	Industrial effluent generation shall not exceed 155 m ³ /Hr and treated in effluent treatment plant. Treated effluent shall be fully as make-up water for raw water cooling towers. Domestic Sewage shall be treated in sewage treatment plant (STP)	Treated effluent is fully recycled as make water to various raw water cooling towers in the Refinery. A new Sewage Treatment plant with a capacity of 250 CMD for administrative block has been commissioned in Dec 2014.
xiii.	Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Complied Oil catchers equipped with skimmers, weirs, drum skimmer, rope skimmer, hay filters etc. have been provided.
xiv.	As committed, BPCL needs to implement the outcome of study for water reduction and its optimize use as result of water auditing. No process effluent shall be discharged outside the premises.	Noted
xv.	Automatic /online monitoring system (24X7 monitoring devices) For flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to respective SPCB, Regional office of MoEF & CC and Company's site	Noted
xvi.	Oily sludge shall be disposed off into Cocker. Annual oily sludge generation and disposal data shall be submitted to Ministry of Regional offices and CPCB.	Not Applicable There is no coker installed at BPCL Mumbai Refinery.
xvii .	The Company should strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules,1989 as amended in October, 1994 and January,2000 Hazardous waste should be disposed of as per Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and amended time to time	Complied
xvii i.	The membership of common TSDF should be obtained for the disposal of hazardous waste. Copy of authorization or membership of TSDF should be submitted to Ministry's Regional Office at Bhopal Chemical/inorganic sludge shall be sent to treatment storage disposal facility (TSDF) for hazardous waste. Spent catalyst shall be sent to authorize recyclers/re-processors.	BPCL MR has membership of Mumbai Waste Management Limited, which is authorized TSDF. Membership certificate is attached as Annexure-1 .
xix.	Proper oil spillage prevention management plan shall be prepared to avoid spillage/leakage of oil/petroleum products and ensure regular monitoring.	Noted

xx	Acoustic enclosure/silencer shall be installed wherever it is possible.	Noted
xxi	The company shall strictly follow all the recommendations mentioned in the charter on Corporate Responsibility for Environmental protection (CREP).	Please refer Annexure-10 for details of Corporate Responsibility for Environmental protection (CREP).
xxii	To prevent fire and explosion at oil and gas facility, potential ignition sources shall be kept to a minimum and adequate separation distance between potential ignition source and flammable material shall be in place.	Complied.
xxii i.	Thick greenbelt with suitable plants species shall be developed around unit, Selection of plants as per CPCB guidelines.	Please refer feedback of point no A-xi mentioned in GTU EC compliance report for further details.
xxi v.	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.	Noted
xxv	At least 2.5% of the total cost of the project shall be unmarked towards the Enterprise social responsibility based on need of the affected people with consultation of local Administration and item-wise details along with long time bound action plan shall be prepared and submitted TO Ministry of Regional Office at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner.	Noted
xxv i	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Project is completed and commissioned.

B.GENERAL CONDITIONS:

Sr. No.	General Condition	Status for Period of Oct-2024 to Mar-2025
i.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), state government and any other statutory authority.	Complied
ii.	No further expansion or modifications in the project shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviation or alterations in the project proposed from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the	Noted

	adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
iii.	The project authorities must strictly comply with the rules & regulation under manufacture. Storage and import of Hazardous chemical Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate, etc. must be obtained, wherever applicable.	Complied
iv.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosure etc, on all sources of noise generation. The ambient noise levels should conform the standards prescribed under Environmental (Protection) Act, 1986 Rules and 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Complied
v.	A separate environmental management cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	BPCL refinery already has an Environment section to carry out environmental management and monitoring functions. The Refinery also has a full-fledged NABL approved Laboratory.
vi.	Adequate funds shall be earmarked towards capital cost and recurring cost for environment pollution control measures and shall be used to implement the conditions stipulated by MOEF as well as state government along with implementation schedule for all the conditions stipulated herein. Funds so provided should not be diverted for any other purpose.	Adequate funds are being provided for environment pollution control measures. Various Environment projects incurring capital expenditure are being carried out regularly.
vii.	The Regional office of the Ministry/ central pollution board / state pollution control board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Complied.
viii.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zillparishad / Municipal Corporation Urban Local Body and Local NGO, if any from whom any suggestions / representations, if any, here received while processing proposal. The clearance letter shall be put on web site of company proponent.	Complied.

ix.	The project proponent shall upload the status of compliance of stipulated environment clearance conditions, including results of monitored data on their website and shall update the same update periodically. It should simultaneously send to Regional office of MoEF, the respective Zonal office of CPCB and SPCB. .The criteria of pollutant levels namely PM ₁₀ ,PM _{2.5} ,SO ₂ ,NOX,HC (Methane & Non-Methane) , VOC's (ambient levels as well as stack emission) or critical sect oral of parameters, indicated for projects shall be monitored and displayed at the convenient location near main gate of the company in public domain.	Complied. Six monthly compliance statement of EC is being uploaded on PARIVESH portal of MoEF&CC and soft copy is being shared with CPCB and MPCB. The compliance report is also posted on the BPCL corporate website. Environmental display board has been provided at the main gate of the refinery, which continuously displays ambient air quality monitored at the north west corner of the refinery.
x.	The project proponent shall also submit six monthly reports on status of compliance of stipulated environmental conditions including results of monitored data (both in hard copies as well as by email) to the Regional office of MoEF, the respective Zonal Office of CPCB and SPCB. The Regional Office of Ministry/CPCBSPCB shall monitor the stipulated conditions.	Complied Six monthly compliance statement of EC is being uploaded on PARIVESH portal of MoEF&CC and soft copy is being shared with CPCB and MPCB.
xi.	The Environmental Statement for each financial year ending 31 st March in Form-V as mandated to be submitted by project proponent concerned SPCB as prescribed under Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the web site of company along with compliance of Environmental conditions and shall also be sent to respective Regional Office of MoEF by e-mail.	Complied
xii.	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry and copies of the clearance are available with the SPCB and may also be seen at website of Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in vernacular language of the locality concerned, and a copy of same shall be forwarded to the Regional Office.	Subsequent to obtaining Env. Clearance from MoEF & CC for DHT, dt 13 th August-15, the same was published in two newspapers (Indian Express in English & Maharashtra Times Marathi) on 25 th August-2015.
xiii.	Project authorities shall inform the Regional office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Noted

Compliance Status Report for Conversion of existing Catalytic Reformer Unit (CRU) to Isomerization Unit (ISOM) and revamp of existing Naphtha Hydro desulfurization Unit (NHDS) at BPCL Mumbai Refinery (MR)

EC Letter no. J-11011/270/2013-IA II (I) dated 8th Aug 2014

Proposal No.- IA/MH/IND/20217/2013

ISOM Plant was commissioned in Feb-2017. As per the stipulations given in the Environmental Clearance for Conversion of existing Catalytic Reformer Unit (CRU) to Isomerization Unit and revamp of existing Naphtha Hydro desulfurization Unit (NHDS), the detailed compliance status is given below:

Sr. No.	Specific Condition	Status for Period of Oct-2024 to Mar-2025
i.	Compliance to all the environmental conditions stipulated in the environmental clearance letter no. J-11011/180/2008-IA II(I) dated 28th April, 2008 , F.No.J-11011/140/2012-IA II I dated 12th June 2013 shall be satisfactorily implemented and compliance reports submitted to ministry's regional office at Bhopal.	Complied
ii.	M/s BPCL shall comply with new standards/norms for Oil Refinery Industry notified under the Environment (Protection) Rules. 1986 vide G S R 186(E) dated 18th March,2008 and GSR 820(E) dated 9th November 2012.	Complied
iii.	Continuous on-line stack monitoring for SO ₂ ,NO _x and CO of all the stacks shall be carried out. Low NO _x burners shall be installed.	Complied
iv.	The process emissions [SO ₂ ,NO _x ,HC (Methane & No-methane)]. VOCs and Benzene from various units shall conform to the standards prescribed under the Environment (Protection) Act. At no time the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency of the pollution control device has been achieved.	Complied
v.	Leak Detection and Repair programme shall be prepared and implemented to contain HC/VOC emissions. Focus shall be given to prevent fugitive emission for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to. Fugitive emissions of HC from product storage tank yard etc. must be regularly monitored. Sensors for detecting HC leakage shall be provided at strategic locations.	Complied

vi.	SO ₂ emissions after expansion from the plant shall not exceed 10.44 TDP, Sulphur recovery units shall be installed for control of H ₂ S emissions. The overall sulphur recovery efficiency of Sulphur recovery unit with tail gas treating shall not be less than 99.9 %.	Tail Gas Treatment Units (TGTU) was commissioned for increasing existing SRU efficiency to 99.9%.
vii.	As proposed, record of sulphur balance shall be maintained at the Refinery as part of the environmental data on regular basis. The basic component of sulphur balance include sulphur input through feed (sulphur content in crude oil), sulphur output from Refinery through products, byproduct (elemental sulphur), atmospheric emissions etc.	Noted
viii.	Ambient air quality monitoring stations, [PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , H ₂ S, mercaptan, non-methane-HC and Benzene] shall be set up in the complex in consultation with Maharashtra Pollution Control Board, based on occurrence of maximum ground level concentration and down-wind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs.	Complied
ix.	Ambient air quality data shall be collected as per NAAQEA standards notified by the Ministry on 16th November, 2009 and trend analysis w.r.t. past monitoring results shall also be carried out. Adequate measures based on the trend analysis shall be taken to improve the ambient air quality in the project area.	Complied
x.	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Besides, acoustic enclosure/silencer shall be installed wherever noise levels exceed the limit.	Complied Power is supplied to ISOM unit from Captive Power Plant existing at the refinery, or shall be imported from Tata Electric Company. DG set is not operating continuously. It supplies power to critical equipments in the refinery only in case of total power failure.
xi.	Total raw water requirement from Municipal Corporation of Greater Mumbai water supply shall not exceed 16500 m ³ /day. Industrial effluent shall be treated in the effluent treatment plant. Treated effluent shall be recycled/reused recycled as make up for the raw water cooling tower. Domestic sewage shall be treated in sewage treatment plant (STP).	Complied
xii.	Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Oil catchers equipped with skimmers, weirs, oil adsorbent booms, pillows, hay filters etc have been provided.
xiii.	Oily sludge shall be disposed off into Coker. Annual Oily sludge generation and disposal data shall be submitted to the Ministry's Regional Office and CPCB.	Not Applicable There is no coker installed at BPCL Mumbai Refinery. Other Oily sludge generated in the refinery is subject to mechanical/chemical treatments for oil recovery, and the residual sludge is bio-remediated using bacteria.
xiv.	The Company should strictly comply with the rules and guidelines under Manufacture, Storage and	Complied

	Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000 Hazardous waste should be disposed of as per Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and amended time to time.	
xv.	The membership of common TSDF should be obtained for the disposal of hazardous waste. Copy of authorization or membership of TSDF should be submitted to Ministry's Regional Office at Bhopal Chemical/inorganic sludge shall be sent to treatment storage disposal facility (TSDF) for hazardous waste. Spent catalyst shall be sent to authorized recyclers/re-processors.	BPCL MR has membership of Mumbai Waste Management Limited, which is authorized TSDF.
xvi.	Proper oil spillage prevention management plan shall be prepared to avoid spillage/leakage of oil/petroleum products and ensure regular monitoring.	Proper oil spillage prevention management plan exist. Closed sampling system has been provided to avoid spillage/leakage of oil. Gully sucker is available in the refinery to take care of any spillages.
xvii.	The company shall strictly follow all the recommendation mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).	Please refer Annexure-10 for details of Corporate Responsibility for Environmental Protection (CREP).
xviii.	To prevent fire and explosion at oil and gas facility, potential ignition sources shall be kept to a minimum and adequate separation distance between potential ignition sources and flammable materials shall be in place.	Complied
xix.	Green belt shall be developed at least in 45 acres area land around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO. Thin greenbelt with suitable plant species shall be developed around unit. Selection of plant species shall be as per the CPCB guidelines.	Please refer feedback of point no A-xi mentioned in GTU EC compliance report for further details.
xx.	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.	Complied
xxi.	Company shall adopt Corporate Environment Policy as per the Ministry's OM No J-11013/41/2006-IA II(I) dated 26 th April 2011 and implemented.	BPCL MR is an ISO 14001 certified company. Quality, Environment, Occupational Health & Safety policy as per Integrated Management Systems is in place.
xxii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Project is completed and commissioned.

B.GENERAL CONDITIONS:

Sr. No.	General Condition	Status for Period of Oct-2024 to Mar-2025
i.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), state government and any other statutory authority.	Complied
ii.	No further expansion or modifications in the project shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviation or alterations in the project proposed from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any	Noted
iii.	The project authorities must strictly comply with the rules & regulation under manufacture. Storage and import of Hazardous chemical Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate, etc. must be obtained, wherever applicable.	Complied
iv.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosure etc, on all sources of noise generation. The ambient noise levels should conform the standards prescribed under Environmental (Protection) Act, 1986 Rules and 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Complied
v.	A separate environment management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	BPCL MR already has an Environment section to carry out environmental management and monitoring functions. The Refinery also has a full-fledged NABL approved Laboratory.
vi.	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to implement the conditions stipulated Ministry of Environment and Forests as well as state government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Various Environmental projects incurring capital expenditure are being carried out regularly.
vii.	The Regional Office of this Ministry / Central Pollution control Board / State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	Complied Six monthly compliance Report is being uploaded on PARIVESH portal of MoEF&CC and soft copy is being shared with CPCB and MPCB. Also, it is published on BPCL corporate website.
viii.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila parishad/Municipal Corporation, Urban local body, and the local NGO if any, from whom suggestions, representations, if any were received while	Complied

	processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	
ix.	The project proponent shall upload the status of compliance of the stipulated environmental conditions including the results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the regional office of MoEF, the respective zonal office of CPCB, and the SPCB. The criteria pollutant levels, namely PM10, PM2.5, SO2, NOx, HC (Methane & non-methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied Six monthly compliance Report is being uploaded on PARIVESH portal of MoEF&CC and soft copy is being shared with CPCB and MPCB. Also, it is published on BPCL corporate website. Environmental display board has been provided at Refinery Main Gate which continuously displays ambient air quality monitored at the north west corner of the refinery.
x.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional office of MoEF, the respective zonal office of CPCB, and the SPCB. The Regional office of this ministry, CPCB/SPCB shall monitor the stipulated conditions.	Six monthly compliance Report is being uploaded on PARIVESH portal of MoEF&CC and soft copy is being shared with CPCB and MPCB. Also, it is published on BPCL corporate website.
xi.	The Environmental statement for each financial year ending 31st March in form V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of Environmental conditions and shall also be sent to the respective Regional Offices of the MoEF by e-mail.	Complied
xii.	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry and copies of the clearance are available with the SPCB and may also be seen at website of Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in vernacular language of the locality concerned, and a copy of same shall be forwarded to the Regional Office.	Subsequent to obtaining Env. Clearance from MoEF for ISOM, dt 8th August-14, the same was published in two newspapers (Indian Express in English & Maharashtra Times Marathi) on 3 rd of September 2014.
xiii.	Project authorities shall inform the Regional office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Noted.

Compliance Status Report for Construction of new Crude Distillation Unit and Vacuum Distillation Unit (CDU-4) as a replacement of two old crude and vacuum units at BPCL Mumbai Refinery.

EC Letter no. J-11011/140/2012-IA II (I) dated 12th June 2013

Proposal No.- IA/MH/IND/2761/2012

The Ministry of Environment and Forests accorded environmental clearance for the project as per EIA Notification dated 14th September 2006.

CDU4 Plant was commissioned in Dec-2015.

A. SPECIFIC CONDITIONS:

Sr. No.	Specific Condition	Status for Period of Oct-2024 to Mar-2025
I	Compliance to all the environmental conditions stipulated in the environmental clearance letter no. J-11011/180/2008-1A II (I) dated 28 th April 2008 shall be satisfactorily implemented and compliance reports submitted to the Ministry's Regional Office at Bhopal.	Complied
ii.	M/s BPCL shall comply with new standards/norms for Oil Refinery Industry notified under the Environment (Protection) Rules. 1986 vide G S R 186(E) dated 18 th March,2008 and GSR 820(E) dated 9 th November-2012	Complied
III.	Continuous on-line stack monitoring for SO ₂ , NO _x and CO of all the stacks shall be carried out. Low NO _x burners shall be installed.	Complied
iv	The process emissions [SO ₂ , NO _x ,HC (Methane & No-methane)]. VOCs and Benzene from various units shall conform to the standards prescribed under the Environment (Protection) Act. At no time the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency of the pollution control device has been achieved.	Complied
v.	Leak Detection and Repair programme shall be prepared and implemented to con HC/VOC emissions. Focus shall be given to prevent fugitive emission for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to. Fugitive emissions of HC from product storage tank yard etc. must be regularly monitored. Sensors for detecting HC leakage shall be provided at strategic locations.	Complied

vi.	SO ₂ emissions after expansion from the plant shall not exceed 10.44 TDP, Sulphur recovery units shall be installed for control of H ₂ S emissions. The overall sulphur recovery efficiency of Sulphur recovery unit with tail gas treating shall not be less than 99.9 %.	Complied
vii	As proposed, record of sulphur balance shall be maintained at the Refinery as part of the environmental data on regular basis. The basic component of sulphur balance include sulphur input through feed (sulphur content incude oil), sulphur output from Refinery through products, byproduct (elemental sulphur), atmospheric emissions etc.	Complied
Viii	Ambient air quality monitoring stations,[PM ₁₀ ,PM _{2.5} ,SO ₂ , NO _x , H ₂ S, mercaptan, non-methane-HC and Benzene] shall be set up in the complex in consultation with Maharashtra Pollution Control Board, based on occurrence of maximum ground level concentration and down-wind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs.	Complied
Ix	Ambient air quality data shall be collected as per NAAQEA standards notified by the Ministry on 16 th November-2009 and trend analysis w.r.t. past monitoring results shall also be carried out. Adequate measures based on the trend analysis shall be taken to improve the ambient air quality in the project area.	Complied
x.	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Besides, acoustic enclosure/silencer shall be installed wherever noise levels exceed the limit.	Noted Power is supplied to new CDU/VDU (CDU4) unit from Captive Power Plant existing at the refinery, or shall be imported from Tata Electric Company. Additional DG set is not required for CDU4 unit.
xi.	Total raw water requirement from Municipal Corporation of Greater Mumbai water supply shall not exceed 687.4 m ³ /hr and prior permission shall be obtained from the competent authority. Industrial effluent generation from new CDU/VDU project shall be 60 m ³ /hr and treated in the effluent treatment plant. Treated effluent shall be recycled /reused recycled as make up for the raw water cooling tower. Domestic sewage shall be treated in sewage treatment plant (STP).	Complied
xii.	Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Complied
Xiii	Oily sludge shall be disposed off into Coker. Annual Oily sludge generation and disposal data shall be submitted to the Ministry's Regional Office and CPCB.	Not applicable

xiv	The Company should strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000 Hazardous waste should be disposed of as per Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and amended time to time	Complied
xv	The membership of common TSDF should be obtained for the disposal of hazardous waste. Copy of authorization or membership of TSDF should be submitted to Ministry's Regional Office at Bhopal Chemical/inorganic sludge shall be sent to treatment storage disposal facility (TSDF) for hazardous waste. Spent catalyst shall be sent to authorized recyclers/re-processors.	Complied
xvi.	Proper oil spillage prevention management plan shall be prepared to avoid spillage/leakage of oil/petroleum products and ensure regular monitoring.	Proper oil spillage prevention management plan exists. Closed sampling system has been provided to avoid spillage/leakage. Gully Sucker is available in the refinery to take care of any spillages.
xvii.	The company shall strictly follow all the recommendation mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).	Complied. Please refer Annexure-10 for details Corporate Responsibility for Environmental Protection (CREP).
xviii.	To prevent fire and explosion at oil and gas facility, potential ignition sources shall be kept to a minimum and adequate separation distance between potential ignition sources and flammable materials shall be in place.	Complied
xix.	Green belt shall be developed at least in 45 acres area land around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO. Think greenbelt with suitable plant species shall be developed around unit. Selection of plant species shall be as per the CPCB guidelines.	Being old refinery established in 1955, there is space constraint. Hence tree plantation is carried out in & around Mumbai Region outside refinery to develop greenbelt. In last 10 years, around 50000 trees have been planted in & around Mumbai region.
xx.	All the issues raised and commitment made during the public hearing/consultation meeting held on 25 th September, 2012 shall be satisfactorily implemented. Accordingly, provision of budget to be kept.	Complied
xxi	Based on Hazop study carried out and recommendation to reduce the risk shall be expeditiously implemented, and report sent to regional office of ministry	Complied
xxii	Company shall adopt Corporate Environment policy as per ministry's O.M. No J-11013/41/2006-IA II(I) dated 26 th April 2011 and implemented.	BPCL MR is an ISO 14001 certified company. Quality, Environment, Occupational Health & Safety policy as

		per Integrated Management Systems is in place.
xxiii	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Project is completed and commissioned.

B. GENERAL CONDITIONS :

Sr. No.	General Condition	Status for Period of Oct-2024 to Mar-2025
i.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), state government and any other statutory authority.	Noted
ii.	No further expansion or modifications in the project shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviation or alterations in the project proposed from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted
iii.	The project authorities must strictly comply with the rules & regulation under manufacture. Storage and import of Hazardous chemical Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate, etc. must be obtained, wherever applicable.	Complied
iv.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosure etc, on all sources of noise generation. The ambient noise levels should conform the standards prescribed under Environmental (Protection) Act, 1986 Rules and 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Noted
v.	A separate environment management cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Noted BPCL MR already has an Environment section to carry out environmental management and monitoring functions.

		The Refinery also has a full-fledged NABL approved Laboratory
vi.	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to implement the conditions stipulated Ministry of Environment and Forests as well as state government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Adequate funds are being provided for environmental pollution control measurement.
vii.	The Regional Office of this Ministry / Central Pollution control Board / State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	Complied
viii.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila parishad/Municipal Corporation, Urban local body, and the local NGO if any, from whom suggestions, representations, if any were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied
ix.	The project proponent shall upload the status of compliance of the stipulated environmental conditions including the results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the regional office of MoEF, the respective zonal office of CPCB, and the SPCB. The criteria pollutant levels, namely PM10, PM2.5, SO2, NOx, HC (Methane & non-methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain	Complied
x.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional office of MoEF, the respective zonal office of CPCB, and the SPCB. The Regional office of this ministry, /CPCB/SPCB shall monitor the stipulated conditions.	Complied
xi.	The Environmental statement for each financial year ending 31 st March in form V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the	Complied

	Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of Environmental conditions and shall also be sent to the respective Regional Offices of the MoEF by e-mail	
xviii.	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry and copies of the clearance are available with the SPCB and may also be seen at website of Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in vernacular language of the locality concerned, and a copy of same shall be forwarded to the Regional Office.	Subsequent to obtaining Env. Clearance from MoEF for CDU/VDU, dt 12 th June-13, the same was published in two newspapers (Indian Express in English & Maharashtra Times Marathi) on 18 th of June 2013.
xix.	Project authorities shall inform the Regional office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Noted

Compliance Status Report for Installation of Continuous Catalytic Regeneration Reformer (CCR 1.2 MMT) at BPCL Mumbai Refinery

Reference to Letter no. F. No. J-11011/180/2008-IA II(I), DATED 28/4/2008 and J-11011/582/2011-1A II (I) dated 7th June 2013.

The Ministry of Environment and Forests accorded environmental clearance for installation of new Continuous Catalytic Regeneration Reformer (CCR 1.2 MMT) within the premises of BPCL Mumbai Refinery. As per the stipulations given in the Environmental Clearance, the detailed compliance status is given below:

CCR Unit was commissioned in Mar-2014

A. SPECIFIC CONDITIONS

Sr. No.	Specific Condition	Status for Period of Oct-2024 to Mar-2025
i.	Compliance to all the Environmental conditions stipulated in the environmental clearance letter no J-11011/180/2008-1A II (I) dated 28 th April 2008 shall be satisfactorily implemented and compliance reports submitted to the Ministry's Regional office at Bhopal	Complied
ii.	M/s BPCL shall comply with new standards/norms for Oil refinery Industry notified under Environment (Protection) Rules 1986 vide GSR 186 (E) dated 18 th March 2008	Complied
iii.	Continuous on-line stack monitoring for SO ₂ , NO _x and CO of all the stacks shall be carried out. Low NO _x burners shall be installed.	Complied
iv.	The process emissions {SO ₂ , NO _x , HC (Methane & Non methane)}, VOC's and benzene from various units shall conform to the standards prescribed under Environment (Protection) Act. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency of the pollution control device has been achieved.	Complied
v.	Leak detection and Repair program shall be prepared and implemented to control HC/VOC emissions. Focus shall be given to prevent fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to. Fugitive emissions of storage tank yards etc. must be	Complied

	regularly monitored. Sensors for detecting HC leakage shall be provided at strategic locations.	
vi.	SO ₂ emissions after expansion from the plant shall not exceed 12 TPD. Sulfur recovery units shall be installed for control of H ₂ S emissions. The overall sulfur recovery efficiency of Sulfur recovery units with tail gas treating shall not be less than 99.9%.	Noted
vii.	As proposed, record of sulfur balance shall be maintained at the refinery as a part of the environmental data on regular basis. The basic component of sulfur balance include sulfur input through feed (sulfur content in the crude oil), sulfur output from refinery through products, by products, atmospheric emissions etc.	Noted
viii.	Ambient Air quality monitoring stations {PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , H ₂ S, mercaptan, non methane-HC and benzene shall be set up in the complex in consultation with Maharashtra Pollution Control Board based on occurrence of maximum ground level concentration and down wind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs.	Noted
ix.	Ambient air quality data shall be collected as per N AAQES standards notified by the ministry on 16 th November 2009 and trend analysis wrt past monitoring results shall be also carried out. Adequate measures based on the trend analysis shall be taken to improve the ambient air quality in the project area.	Noted
x.	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Besides acoustic enclosure/silencer shall be installed where ever noise pollution exceeds the limit.	Noted Power is being provided to CCR unit from existing Captive Power Plant at the refinery or is being imported from Tata Electric Company. Additional DG set is not required for CCR unit.
xi.	Total raw water requirement for the proposed project shall not exceed 4995 m ³ /day and prior permission shall be taken from competent authority. Industrial effluent generation from CCR unit shall not exceed 129 m ³ /day. Industrial effluent shall be treated in effluent treatment plant. Treated effluent shall be recycled /re-used in the existing cooling tower. Domestic sewage shall be treated in sewage treatment plant. (STP)	Noted

xii.	Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Noted
xiii.	Oily sludge shall be disposed off into Coker. Annual oily sludge generation and disposal data shall be submitted to the ministry's Regional office and CPCB.	Not Applicable There is no coker installed at BPCL Mumbai Refinery. There is no oily sludge generation from CCR complex. Other Oily sludge generated in the refinery is subject to mechanical/chemical treatments for oil recovery and the residual sludge is bio-remediated using bacteria to reduce oil content below 0.5 wt% before it can be disposed off as per Hazardous waste Rule 2016.
xiv.	The company should strictly comply with the rules and guidelines under manufacture, storage and import of hazardous chemicals Rules 1989 as amended in October 1994 and January 2000. Hazardous waste should be disposed off as per Hazardous waste (Management, Handling and Trans-boundary movement) rules 2008 and amended time to time.	Noted
xv.	The membership of common TSDF should be obtained for the disposal of hazardous waste. Copy of authorization or membership of TSDF should be submitted to Ministry's regional office at Bhopal. Chemical/inorganic sludge shall be sent to Treatment storage disposal facility (TSDF) for hazardous waste. Spent catalyst shall be sent to authorized recyclers/re-processors.	Complied
xvi.	Proper oil spillage prevention management plan shall be prepared to avoid spillage/leakage of oil/petroleum products and ensure regular monitoring.	Complied Closed sampling system has been provided to avoid spillage/leakage of oil. Gully Suckers are available to take care of any spillage. Close Blow down system is operational for close draining of hydrocarbons during maintenance activity. Oil catchers are provided for removing oil from water going out of refinery.

xvii.	The company shall strictly follow all the recommendation mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP)	Noted Please refer Annexure-10 .
xviii.	To prevent fire and explosion at oil and gas facility, potential ignition sources shall be kept to minimum and adequate separation distance between potential ignition sources and flammable materials shall be in place.	Noted
xix.	Green belt shall be developed at least in 33% of the plant area in and around the plant premises to mitigate the effect of fugitive emissions all around the plant as per the CPCB guidelines.	Please refer feedback of point no A-xi mentioned in GTU compliance report.
xx.	All the recommendations mentioned in the rapid risk assessment report, disaster management plan, and safety guidelines shall be implemented.	Noted
xxi.	All the issues raised and commitment made during public hearing/consultation meeting held on the 25 th September 2012 shall be satisfactorily implemented. Accordingly, provision of budget to be kept.	Noted
xxii.	Company shall adopt Corporate Environment policy as per ministry's O.M. No J-11013/41/2006-IA II(I) dated 26 th April 2011 and implemented.	BPCL MR is an ISO 14001 certified company. Quality, Environment, Occupational Health & Safety policy as per Integrated Management System.
xxiii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Project is completed and commissioned.

B. GENERAL CONDITIONS

Sr. No.	General Condition	Status for Period of Oct-2024 to Mar-2025
i.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), state government and any other statutory authority.	Noted
ii.	No further expansion or modifications in the project shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviation or alterations in the project proposed from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the	Noted

	adequacy of conditions imposed and to add additional environmental protection measures required , if any	
iii.	The project authorities must strictly comply with the rules & regulation under manufacture. Storage and import of Hazardous chemical Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate, etc. must be obtained, wherever applicable.	Noted
iv.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosure etc, on all sources of noise generation. The ambient noise levels should conform the standards prescribed under Environmental (Protection) Act, 1986 Rules and 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Noted
v.	A separate environment management cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Noted
vi.	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to implement the conditions stipulated Ministry of Environment and Forests as well as state government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Noted
vii.	The Regional Office of this Ministry / Central Pollution control Board / State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	Noted
viii.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila parishad /Municipal Corporation, Urban local body and the local NGO if any, from whom suggestions, representations, if any were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Noted

ix.	The project proponent shall upload the status of compliance of the stipulated environmental conditions including the results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the regional office of MoEF, the respective zonal office of CPCB, and the SPCB. The criteria pollutant levels, namely PM10, PM2.5, SO2, NOx, HC (Methane & non-methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Noted
x.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional office of MoEF, the respective zonal office of CPCB, and the SPCB. The Regional office of this ministry, /CPCB/SPCB shall monitor the stipulated conditions.	Complied
xi.	The Environmental statement for each financial year ending 31 st March in form V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of Environmental conditions and shall also be sent to the respective Regional Offices of the MoEF by e-mail.	Complied
xii.	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry and copies of the clearance are available with the SPCB and may also be seen at website of Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in vernacular language of the locality concerned, and a copy of same shall be forwarded to the Regional Office.	Subsequent to obtaining Env. Clearance from MoEF for CCR (1.2 MMTPA), the same was published in two newspapers (Indian Express in English & Maharashtra Times Marathi) on 13 th of June 2013.
xiii.	Project authorities shall inform the Regional office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Noted

Compliance Status Report for modernization of Mumbai Refinery by replacing old Catalytic Cracking Unit (CCU) and Fluidized Catalytic Cracking Unit (FCCU) with the new state of the art Petro Resid Fluidized Catalytic Cracking Unit (PRFCCU) & associated facilities

EC Letter no. J-11011/145/2018-1A II (I) dated 5th Aug-2019

Compliance of EC:

Project is yet to be established & construction is not started as of 01.06.2025.

Sr. No.	Specific Condition	Status for Period of Oct-2024 to Mar-2025																																																																				
2.	The proposal is for environmental clearance to the project for modernization of Mumbai refinery by replacing old catalytic cracking unit (CCU) and fluidized catalytic cracking unit (FCCU) with the new state of the art petro Resid fluidized catalytic cracking unit (PRFCC) and associated facilities by M/s Bharat Petroleum Corporation Ltd in the existing refinery complex of total area 454 acres at village Mahul, tehsil Kurla, Mumbai suburban (Maharashtra).	Project yet to be established / construction not started as of 01.06.2025.																																																																				
3.	Details of existing and the proposed products are as under <table><tr><th>S. No.</th><th>Product</th><th>Exiting (TPD)</th><th>Proposed (TPD)</th></tr><tr><td>1</td><td>Propylene</td><td>330</td><td>1,350</td></tr><tr><td>2</td><td>LPG</td><td>1,530</td><td>1,950</td></tr><tr><td>3</td><td>Hexane</td><td>120</td><td>120</td></tr><tr><td>4</td><td>Toluene</td><td>36</td><td>36</td></tr><tr><td>5</td><td>Benzene</td><td>144</td><td>144</td></tr><tr><td>6</td><td>Naphtha</td><td>1,809</td><td>615</td></tr><tr><td>7</td><td>BS6 MS</td><td>7,500</td><td>7,800</td></tr><tr><td>8</td><td>Kerosene</td><td>210</td><td>210</td></tr><tr><td>9</td><td>MTO</td><td>240</td><td>240</td></tr><tr><td>10</td><td>Jet Fuel</td><td>3,000</td><td>3,000</td></tr><tr><td>11</td><td>BS-VI Diesel</td><td>19,500</td><td>19,800</td></tr><tr><td>12</td><td>Lobs</td><td>900</td><td>900</td></tr><tr><td>15</td><td>Fuel Oil</td><td>3,270</td><td>1,800</td></tr><tr><td>17</td><td>Bitumen</td><td>1,650</td><td>1,650</td></tr><tr><td>18</td><td>Sulphur</td><td>195</td><td>270</td></tr><tr><td>20</td><td>Internal Fuel</td><td>1,566</td><td>2,115</td></tr></table>	S. No.	Product	Exiting (TPD)	Proposed (TPD)	1	Propylene	330	1,350	2	LPG	1,530	1,950	3	Hexane	120	120	4	Toluene	36	36	5	Benzene	144	144	6	Naphtha	1,809	615	7	BS6 MS	7,500	7,800	8	Kerosene	210	210	9	MTO	240	240	10	Jet Fuel	3,000	3,000	11	BS-VI Diesel	19,500	19,800	12	Lobs	900	900	15	Fuel Oil	3,270	1,800	17	Bitumen	1,650	1,650	18	Sulphur	195	270	20	Internal Fuel	1,566	2,115	Project yet to be established / construction not started as of 01.06.2025.
S. No.	Product	Exiting (TPD)	Proposed (TPD)																																																																			
1	Propylene	330	1,350																																																																			
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20	Internal Fuel	1,566	2,115																																																																			
4.	Total area of the refinery complex is 454 acres. The proposed project will be implemented in an area of 6 acres by dismantling old cracking /distillation units. The estimated project cost is Rs.6,877 crore, and the cost earmarked towards pollution control measures is about Rs.400 crores.	Project yet to be established / construction not started as of 01.06.2025.																																																																				
5.	There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves and	Project yet to be established / construction not started as of 01.06.2025.																																																																				

	Wildlife Corridors etc. within 10 km from the project site.	
6.	No additional raw water is required for the propose project. Total water requirement for the entire refinery will remain unchanged and within the approved limit of 15950 m3/day, which would be met from existing raw water system of Municipal Corporation of Greater Mumbai wastewater generation estimated at 50 m3/hr. will be treated in the existing Effluent Treatment Plant, and the treated water will be reuse in the Refinery. Power requirement 50 MW for the propose project will be met from State Grid. Diesel Generator (DG) sets will be used as standby during power failure.	Project yet to be established / construction not started as of 01.06.2025.
7.	The project/activity is covered under category A of item 4 (a) 'Petroleum refining industry' of the Schedule to the Environmental Impact Assessment Notification, 2006 and requires appraisal/approval at Central level in the Ministry.	Project yet to be established / construction not started as of 01.06.2025.
8.	The standard terms of reference (ToR) was granted by the Ministry on 1 June, 2018. Public hearing was exempted as per the provision contained in Para 7(ii) of EIA Notification, 2006.	Project yet to be established / construction not started as of 01.06.2025.
9.	The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meeting held on 6-8 May, 2019, wherein the project proponent and their accredited consultant presented the EIA/EMP report. The Committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.	Project yet to be established / construction not started as of 01.06.2025.
10.	Based on the proposal submitted by the project proponent and recommendation of the EAC, Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for Modernization of Mumbai Refinery by replacing old catalytic cracking unit and Fluidized catalytic cracking Unit with the new State of the art Petro Resid Fluidized Catalytic cracking Unit with the new state of the art Petro Resid Fluidized catalytic cracking unit and associated facilities by M/s Bharat Petroleum Corporation Ltd at village Mahul, tehsil Kurla, Mumbai suburban (Maharashtra), under the provision of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-	Project yet to be established / construction not started as of 01.06.2025.
10 (a)	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be	Project yet to be established / construction not started as of 01.06.2025.

	obtained from the State Pollution Control Board as required	
10 (b)	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Project yet to be established / construction not started as of 01.06.2025.
10 (c)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.	Project yet to be established / construction not started as of 01.06.2025.
10 (d)	The National Emission Standards for Petroleum Oil Refinery issued by the Ministry vide G.S.R. 186(E) dated 18 March, 2008 and G.S R.595 (E) dated 21 August, 2009 as amended from time to time, shall be followed.	Project yet to be established / construction not started as of 01.06.2025.
10 (e)	To control source and the fugitive emissions, suitable pollution control devices shall be installed with different stacks to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stacks of adequate height as per CPB/SPCB guidelines.	Project yet to be established / construction not started as of 01.06.2025.
10 (f)	Existing water requirement is 15950 m ³ /day. No additional raw water shall be required For the proposed modernization project.	Project yet to be established / construction not started as of 01.06.2025.
10 (g)	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm Water drain shall be passed through guard pond.	Project yet to be established / construction not started as of 01.06.2025.
10 (h)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame Arresters shall be provided on tank farm, and solvent transfer to be done through pumps.	Project yet to be established / construction not started as of 01.06.2025.
10 (i)	Process organic residue and spent carbon, if any, shall be sent to cement industries ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.	Project yet to be established / construction not started as of 01.06.2025.
10 (j)	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	Project yet to be established / construction not started as of 01.06.2025.
10 (k)	Regular VOC monitoring to be done at vulnerable points.	Project yet to be established / construction not started as of 01.06.2025.

10 (l)	The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.	Project yet to be established / construction not started as of 01.06.2025.
10 (m)	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MEF&CC. Outcome from the report to be implemented for conservation scheme.	Project yet to be established / construction not started as of 01.06.2025.
10 (n)	Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.	Project yet to be established / construction not started as of 01.06.2025.
10 (o)	The company shall undertake waste minimization measures as below:- i. Metering and control of quantities of active ingredients to minimize waste ii. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes iii. Use of automated filling to minimize spillage. iv. Use of Close Feed system into batch reactors. v. Venting equipment through vapor recovery system. vi. Use of high pressure hoses for equipment clearing to reduce wastewater generation	Project yet to be established / construction not started as of 01.06.2025.
10 (p)	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Project yet to be established / construction not started as of 01.06.2025.
10 (q)	At least 0.25% of the total project cost shall be allocated for corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Project yet to be established / construction not started as of 01.06.2025.
10 (r)	For the DG sets emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Project yet to be established / construction not started as of 01.06.2025.
10 (s)	The unit shall make arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Project yet to be established / construction not started as of 01.06.2025.
10 (t)	Continuous online (24*7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability.	Project yet to be established / construction not started as of 01.06.2025.

10 (u)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the factories Act.	Project yet to be established / construction not started as of 01.06.2025.
10.1	The grant of Environmental clearance is further subject to compliance of other generic conditions as under:- (i) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and/or any other statutory authority. (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry. In case of deviations or alterations in the project proposal from those submitted to this Ministry, a fresh reference shall be made to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated. (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826 (E) dated 16th November, 2009 shall be complied with. (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. The ambient noise levels shall conform to the standards prescribed under Environment (protection) Act, 1986 Rules, 1989 viz.75 dBA (day time) and 70 dBA (night time). (vi) The company shall harvest rainwater from the roof tops of the buildings to recharge ground water and utilize the same for different industrial operations within the plant. (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis .Training to all employees on handling of chemicals shall be imparted. (vii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented. (ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken	Project yet to be established / construction not started as of 01.06.2025.

	by involving local villagers. Administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment. (x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. (xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and climate change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose. (xii) A copy of the clearance letter shall be sent by the project proponent to concerned panchayat, Zila Parisad/ Municipal corporation, urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. (xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional office of MoEF&CC, the respective zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company. (xiv) The environmental statement for each financial year ending 31» March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail. (xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.	
11.	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner.	Project yet to be established / construction not started as of 01.06.2025.

	The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	
12.	The above conditions will be enforced, inter-alia under the provisions of the water (Prevention & Control Of Pollution)Act, 1974, the Air (prevention & Control of water Pollution) Act, 1981, the Environment (Protection) Act,1986,the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act,1991, read with subsequent amendments therein.	Project yet to be established / construction not started as of 01.06.2025.



Mumbai Waste Management Ltd.

Certificate

of Membership

M/s. BHARAT PETROLEUM CORPORATION LTD. MUMBAI
is a registered member of REFINERY & MOT

CHW-TSDF at MIDC –Taloja for
safe and secure disposal of
Hazardous waste with

Membership No: MWML – HZW – MUM-3247

Certificate No: 3602- 914

This Certificate is valid up to: 31st MARCH 2026

Onkar Kulkarni
Manager – MBD

Somnath Malgar
Director

Pagare Ajay Suryakant (पगारे अजय सूर्यकांत)

From: Pagare Ajay Suryakant (□□□□□ □□□ □□□□□□□□)
Sent: Tuesday, July 1, 2025 2:32 PM
To: 'SRO Mumbai3'
Cc: Naizu A V (□□□□□ □ □□); Vyawahare A D (□□□□□□□□ □ □□); Mahaveer Ramesh Jadhav (□□□□□□ □□□□ □□□□)
Subject: Clarification and Request Regarding Acceptance of MPCB-HW_ANNUAL_RETURN-0000057216 with consideration for BPCL Mumbai Refinery for 2024-25
Attachments: Form 4 HW Annual Return (2024-25).pdf

Dear Sir,

In MPCB-HW_ANNUAL_RETURN-0000057216, the 'actual quantity' of hazardous waste is appearing under the 'Consented Quantity' for Part A (1) after submission. MPCB-TICKET-0000140360 was raised to request either an edit or a fresh submission.

Since the portal does not currently allow editing or resubmission of Form 4 for the year **2024-25**, as discussed we request you to kindly consider the attached Form 4 for 2024-25 as final with the quantity shown under '*Consented*' to be treated as '*Actual*' and vice versa for Part A (1).

This is for your kind consideration.

Thanks & Regards,
 Environment Team (HSSE)
 BPCL Mumbai Refinery
 Website: www.bharatpetroleum.in
 Like...Follow...Share...Bharat Petroleum





Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Form 4

See rules 6(5),13(8),16(6) and 20(2) of Hazardous and other wastes 2016

FORM FOR FILING ANNUAL RETURNS

[To be submitted to state pollution control board/pollution control committee by 30th June of every year for the preceeding period April to march]

Unique Application Number:

MPCB-HW_ANNUAL_RETURN-0000057216

Submitted On:

26-06-2025

Industry Type :

Generator

Submitted for Year:

2025

1. Name of the generator/operator of facility

Bharat Petroleum Corporation Ltd. Mumbai Refinery

Address of the unit/facility

BHARAT PETROLEUM CORPORATION LTD.,
MUMBAI REFINERY, MAHUL, CHEMBUR,
MUMBAI-400074

1b. Authorization Number

Format1.0/CAC/UAN No.MPCBCONSENT- 0000220864/CO/2504002848

Date of issue

Apr 24, 2025

Date of validity of consent

Aug 31, 2025

2. Name of the authorised person

SHRI. ABHAI RAJ SINGH BHANDARI , EXECUTIVE DIRECTOR

Full address of authorised person

BHARAT PETROLEUM CORPORATION LTD.,
MUMBAI REFINERY, MAHUL, CHEMBUR,
MUMBAI-400074

Telephone

9819146864

Fax

25540720

Email

vyawaharead@bharatpetroleum.in

3.Production during the year (product wise), wherever applicable

Product Type *	Product Name *	Consented Quantity	Actual Quantity	UOM
Oil Refinery (Mineral Oil or Petro Refineries)	LPG (Liquified Petroleum Gas), POLY PROPYLENE FEED STOCK	1764.0000	1591	MT/Day
Oil Refinery (Mineral Oil or Petro Refineries)	BENZENE, TOLUENE, XYTOL	225.0000	180	MT/Day
Oil Refinery (Mineral Oil or Petro Refineries)	Special Naphtha (SBP 55/115 DEG C), HEXANE (FGH 64-69 DEG C), Motor Spirit (MS), MTBE, NAPHTHA, Other Solvents	9777.0000	10857	MT/Day
Oil Refinery (Mineral Oil or Petro Refineries)	Superior Kerosene (SK, LABFS), Mineral Turpentine (MTO), Aviation Turbine Fuel (ATF)	2750.0000	2231	MT/Day
Oil Refinery (Mineral Oil or Petro Refineries)	High Speed Diesel (HSD BS IV, Navy Grade HSD), Light Diesel Oil	19500.0000	19432	MT/Day
Oil Refinery (Mineral Oil or Petro Refineries)	HS Furnace Oil (FO), Low Sulfur Heavy Stock (LSHS), BITUMEN (VG40, VG30 & VG10), SULFUR	5587.0000	2370	MT/Day
Oil Refinery (Mineral Oil or Petro Refineries)	LUBE OIL BASE STOCK (LOBS)	1233.0000	1015	MT/Day

PART A: To be filled by hazardous waste generators

1. Total Quantity of waste generated category wise

Type of hazardous waste	Wate Name	Consented Quantity	Quantity	UOM
4.2 Spent catalyst	Spent Resin/Coke/Alumina/Clay/Sand/Adsorbent/CCU & FCCU Catalyst	432.440	2538.75	MTA
4.1 Oil sludge or emulsion	Oily Sludge	441.630	8100	KL/Anum
28.3 Spent carbon	Spent Carbon	14.420	100	KL/Anum
33.2 Contaminated cotton rags or other cleaning materials	Oil Soaked Mixed Debries	5.150	50	KL/Anum
4.3 Slop oil	Slop Oil	31367.660	270000	KL/Anum

2. Quantity dispatched category wise.

Type of Waste	Quantity of waste	UOM	Dispatched to	Facility Name
4.2 Spent catalyst	432.44	MTA	Disposal Facility	MUMBAI WASTE MANAGEMENT LTD. PLOT NO P-32, MIDC TALOJA, PANVEL. RAIGAD. NAVI MUMBAI-410208
4.1 Oil sludge or emulsion	441.63	MTA	Recycler or Actual user	Oil Recovery & Bioremediation inside Refinery
4.3 Slop oil	31367.66	MTA	Recycler or Actual user	Recycle and Reprocessing along with Crude inside Refinery
28.3 Spent carbon	14.42	MTA	Disposal Facility	MUMBAI WASTE MANAGEMENT LTD. PLOT NO P-32, MIDC TALOJA, PANVEL. RAIGAD. NAVI MUMBAI-410208
33.2 Contaminated cotton rags or other cleaning materials	5.15	MTA	Disposal Facility	MUMBAI WASTE MANAGEMENT LTD. PLOT NO P-32, MIDC TALOJA, PANVEL. RAIGAD. NAVI MUMBAI-410208

3. Quantity Utilised in-house,If any

Type of Waste	Name of Waste	Quantity of Waste	UOM
	NA	0	MTA

4. Quantity in storage at the end of the year

Type of Waste	Name of Waste	Quantity of Waste	UOM
	NA	0	MTA

5. Quantity disposed in landfills as such and after treatment

Type	Quantity	UOM
Direct landfilling	0	MTA
Landfill after treatment	0	MTA

6. Quantity incinerated (if applicable)	UOM
0	MTA

Personal Details

Place	Date	Designation
MUMBAI	2025-06-26	GM (Environment,PSM,QMS)



Mumbai Agricultural Produce¹²¹ Market Committee, Mumbai

(ESTD. 1977)

HEAD OFFICE : Central Building, Sector-18, Vashi, Navi Mumbai - 400 703

BRANCH OFFICE : Shri Chhatrapati Shivaji Maharaj Mandai,
3rd Floor, Palton, Mumbai - 400 001.

TELEPHONES :

HEAD. OFF. : 2788 9416

EPABX : 2788 8414

FAX : 91-22-27889507

BRANCH OFF. : 2261 6624

FAX : 2261 4888

E-mail : mapmc@bom3.vsnl.net.in

NO.APMC/ENGG.DEPT./ 501 /14

Date : 4/12/14

To,

BPCL Mumbai Refinery,
Mahul, Chembur,
Mumbai 400 074.

Sub : Certification Letter.

Ref : Your request letter No.TA/PC/Gen-II, dtd. 27.11.2014.

Sir,

With reference to the above subject, this is to certify that BPCL Mumbai Refinery (Environment Department) has planted a total No. of 3050 tree saplings at Plot No.8 and Plot no.10 area of APMC, Sector-19, Vashi, Navi Mumbai. The plantation is covering an area of approximately 4 acres. The plantation was carried out in the monsoon season of 2014. The saplings planted are in healthy condition and have gained firm roots as on date, 30th November, 2014.

[Signature]
Addl. Commissioner & Secretary
Mumbai APMC, Mumbai.

**Mumbai Waste Management Ltd.**

Plot No. P-32, MIDC Taloja, Dist. Raigad,
Tal. Panvel Maharashtra 410 208. India
Tel.: 022-2740 1468 to 71 & 2741 1473
Fax: 022-2740 1474
Email: mbdmwml@ramky.com
www.mumbaiwastemanagement.com

Date: 26/10/2016 To,

To,

Bharat Petroleum Corporation Limited

8931/TA/111, Mahul, Chembur

Mumbai -400074

Sub: Tree Plantation at Mumbai Waste Management Ltd.

Kind Attn: Mr. Joshi

Dear Sir,

As you are aware that your esteemed firm had allotted 3000 trees for plantation at MWML Premises on the occasion of World Environment Day 2016.

MWML is grateful to you for this warm gesture and we would like to inform you that these trees have been planted in our premises at Taloja.

For your reference we are enclosing few photographs with this letter.

Thank You

Sincerely,

Authorized Signatory

Mumbai Waste Management Ltd.

Certified by



bsi.

ISO 9001:2008 | ISO 14001:2004 | OHSAS 18001:2007
C. No. FS 570487 | C. No. EMS 570497 | C. No. OHS 570500

Corporate Office:

Ramky Enviro Engineers Ltd.

Ramky Grandiose Floor, 12, 13, Ramky Tower Complex,
Gachibowli Hyderabad - 500 032.

Tel.: 040-2301 5000 (40 Lines) • Fax: 040-2330 2353 • Website: www.ramky.com



ठाणे महानगरपालिका, ठाणे

महानगरपालिका भवन, डॉ. अल्मेडा रोड, चंदनवाडी, पांचपाखाडी, ठाणे ४००६०२
THE MUNICIPAL CORPORATION OF THE CITY OF THANE

संदर्भ क्र : ठामपा/वृप्रा/वृअ - ७२०

दि. २३/६/२०१७

चला एकत्र येऊया : ठाणे हिरवेगार करूया !

प्रति,
मे. भारत पेट्रोलियम कॉर्पोरेशन लि.,
भारत भवन, करीमभाँय रोड,
बेलाड इस्टेट, मुंबई. ४००००१



विषय: ५ लक्ष वृक्षलागवड योजना ...

संदर्भ : १. आपले दि. २५/०५/२०१७ रोजीचे पत्र.

२. ठामपा/वृप्रा/वृअ-५२० दि. १३/०६/२०१७

३. आपले आ.क्र. २२२९ दि. २३/०६/२०१७ रोजीचे पत्र.

महोदय,

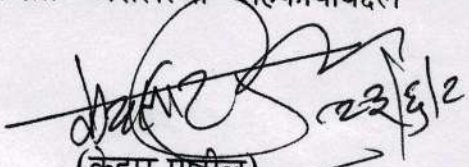
संदर्भ क्र. २ च्या पत्रान्वये आपणास ५ लक्ष वृक्षलागवड योजनेचा शुभारंभ जागतिक पर्यावरण दिनी ५ जून २०१७ रोजी करण्यात आला असून आपणामार्फत आपल्या स्वःखर्चाने या योजनेमध्ये ५००० वृक्षांचा पुरवठा करण्याबाबत कळविले आहे.

संदर्भ क्र. ३ च्या पत्रान्वये आपणामार्फत वृक्षांचे रोपण करण्याबाबत व त्यांच्या दैनंदिन निगा व देखभालीबाबत विचारणा करण्यात आलेली आहे.

सदर अनुषंगाने आपणास कळविण्यात येते की, आपणामार्फत पुरवठा करण्यात येणाऱ्या वृक्षांचे रोपण व त्यांची दैनंदिन निगा व देखभाल ठाणे महानगरपालिकेमार्फत करण्यात येईल.

वरीलप्रमाणे रोपे उपलब्ध करून देण्याबाबत उलट टपाली इकडे कळविण्यात यावे व रोपे पुरवठा बाबत प्रगती अहवाल gs@thanecity.gov.in या ई-मेलवर पाठविणेत यावा.

आपण पर्यावरण रक्षणासाठी ठाणे महानगरपालिकेस करीत असलेल्या सहकार्याबद्दल आभार !


(केदार पाटील)

वृक्षअधिकारी
ठाणे महानगरपालिका, ठाणे.

प्रत : मा. अति- आयुक्त सो यांचे माहितीसाठी सविनय सादर ...

17 SEPTEMBER, 2019

CARBON SEQUESTRATION CERTIFICATE

PRESENTED TO

BPCL



FOR OFFSETTING OVER 15 YEARS

2,543.76 MT of CO₂

WITH THE PLANTATION OF

10,000 Native Trees

IN THE

MUMBAI METROPOLITAN REGION



JANJRI JASANI

HEAD OF SUSTAINABILITY SERVICES
CERE

18th Mar-2025

BPCL Mumbai Refinery,
Mahul Gaon, Chembur
Mumbai-400074

Sub: Certificate for Tree Plantation at BPCL Sewree location

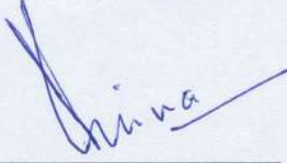
Dear Team,

This is to certify that the Environment Section (HSSE Department), BPCL Mumbai Refinery has successfully planted approximately **300 native species of trees** at **BPCL Sewree location** using the **Miyawaki Method** for carbon sequestration and green belt development.

The plantation, covering an area of **approximately 60 square meters**, was carried out on **17th June 2022**. The saplings are in healthy condition and have firmly taken root, contributing to environmental sustainability.

We appreciate this valuable initiative and look forward to future collaborations in fostering a greener environment.

Thanking You.



Sanjeev Raina

ED (Corporate HSSE)

BPCL

भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड

भारत सरकार का उपक्रम
आईएसओ 9001:2015, 14001:2015, 45001:2018
प्रमाणित पाईपलाईन्स

**BHARAT PETROLEUM CORPORATION LTD.**

A Govt. of India Enterprise
ISO 9001:2015, 14001 : 2015, 45001 : 2018
Certified Pipelines

19th Mar-2025

BPCL Mumbai Refinery,
Mahul Gaon, Chembur
Mumbai-400074

Sub: Certificate for Tree Plantation at MMBPL, SV-o6 location at Atgaon.

Dear Team,

This is to certify that the MMBPL Pipelines, Western Region has successfully planted approximately **700 native species of trees** at **MMBPL SV-o6 location near Atgaon** using the **Miyawaki Method** for carbon sequestration and green belt development.

The plantation, covering an area of **approximately 140 square meters**, was carried out on **26th Jan 2023**. The saplings are in healthy condition and have firmly taken root, contributing to environmental sustainability.

We appreciate this valuable initiative and look forward to future collaborations in fostering a greener environment.

Thanking You

Neelesh Timothy
Head (Pipelines), West
BPCL



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2024

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000074103

Submitted Date

30-09-2024

PART A

Company Information

Company Name

Bharat Petroleum Corporation Limited

Application UAN number

NA

Address

BPCL Mumbai Refinery, Mahul Gaon,
Chembur, Mumbai-400074

Plot no

234/482

Taluka

Kurla

Village

Mahul

Capital Investment (In lakhs)

1225449

Scale

L.S.I

City

Mumbai

Pincode

400074

Person Name

Atul Vyawahare

Designation

DGM I/C (Environment)

Telephone Number

02231073198

Fax Number

0

Email

vyawaharead@bharatpetroleum.in

Region

SRO-Mumbai III

Industry Category

Red

Industry Type

R56 Oil Refinery (mineral Oil or Petro Refineries)

Last Environmental statement submitted online

yes

Consent Number

Format1.0/CAC/UAN No.MPCB CONSENT-
0000173030/CR/2310000717

Consent Issue Date

2023-10-10

Consent Valid Upto

2023-08-31

Establishment Year

1955

Date of last environment statement submitted

Jan 1 1900 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

LPG (Liquified Petroleum Gas), POLY PROPYLENE FEED STOCK

Consent Quantity Actual Quantity UOM

643860 503537 MT/A

BENZENE, TOLUENE, XYTOL

65700 52945 MT/A

Special Naphtha (SBP 55/115 DEG C), HEXANE (FGH 64-69 DEG C), Motor Spirit (MS), MTBE, NAPHTHA, Other Solvents

3329530 3696970 MT/A

Superior Kerosene (SK, LABFS), Mineral Turpentine (MTO), Aviation Turbine Fuel (ATF)

1259250 891407 MT/A

High Speed Diesel (HSD BS IV, Navy Grade HSD), Light Diesel Oil

7117500 7033940 MT/A

HS Furnace Oil (FO). Low Sulfur Heavy Stock (LSHS), BITUMEN (VG40, VG30 & VG10), SULFUR

2039255 1952128 MT/A

By-product Information

By Product Name	Consent Quantity	Actual Quantity	Type	Unit
NA	0	0		MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	20405.00	16097.00
Domestic	153790.00	60000.00
All others	1408.00	750.00
Total	0.00	0.00
	175603.00	76847.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Process Effluent	5760	2136	CMD
Sea cooling water blowdown	146319	40000	CMD
Domestic Effluent	235	25	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
NA	0	0	MT/A

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Crude Throughput	14494604	15193854	MT/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
GAS	338501	208231	MT/A
LSHS	232542	189850	MT/A
COKE	109500	77164	MT/A
RLNG	335727	177357	MT/A
BHAG	22630	0	MT/A
NAPHTHA	9271	0	MT/A
PSA OFF GAS	94900	347169	MT/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

<i>Pollutants Detail</i>	<i>Quantity of Pollutants discharged (kL/day)</i>	<i>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</i>	<i>Percentage of variation from prescribed standards with reasons</i>		
	Quantity	Concentration	%variation	Standard	Reason
PH	0	7.26	0	6 to 8.5	NA
Oil & Grease	0	2.81	0	5	NA
BOD (3 days 27'C)	0	10.13	0	15	NA
COD	0	102.84	0	125	NA
Suspended Solids	0	13.37	0	20	NA
Phenols	0	0.23	0	0.35	NA
Sulphides	0	0.26	0	0.5	NA
CN	0	0.005	0	0.2	NA
Ammonia as N	0	8.91	0	15	NA
TKN	0	25.88	0	40	NA
Phosphate	0	2	0	3	NA
Cr (Hexavalent)	0	0.05	0	0.1	NA
Cr (Total)	0	0.01	0	2	NA
Pb	0	0.05	0	0.1	NA
Hg	0	0.001	0	0.01	NA
Zn	0	0.05	0	5	NA
Ni	0	0.02	0	1	NA
Cu	0	0.04	0	1	NA
V	0	0.1	0	0.2	NA
Benzene	0	0.01	0	0.1	NA
Benzo (a)-Pyrene	0	0.01	0	0.2	NA

[B] Air (Stack)

<i>Pollutants Detail</i>	<i>Quantity of Pollutants discharged (kL/day)</i>	<i>Concentration of Pollutants discharged(Mg/NM3)</i>	<i>Percentage of variation from prescribed standards with reasons</i>		
	Quantity	Concentration	%variation	Standard	Reason
SOx	7259	79.33	0	1700	NA
NOx	3323	141.03	0	450	NA
CO	2078	38.64	0	200	NA
SPM	416	7.89	0	100	NA

Part-D

HAZARDOUS WASTES

1) From Process

<i>Hazardous Waste Type</i>	<i>Total During Previous Financial year</i>	<i>Total During Current Financial year</i>	<i>UOM</i>
4.1 Oil sludge or emulsion	441	3911	MT/A
Other Hazardous Waste	0	0	KL/A

2) From Pollution Control Facilities

<i>Hazardous Waste Type</i>	<i>Total During Previous Financial year</i>	<i>Total During Current Financial year</i>	<i>UOM</i>
------------------------------------	--	---	-------------------

Part-E

Type text here

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
FERROUS SCRAP	2242.7	2756	MT/A
WOOD SCRAP	128.9	52.97	MT/A
DRUMS & TINS	2138	1920	Nos./Y
NON FERROUS SCRAP	99.47	135	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
4.1 Oil sludge or emulsion	3911	MT/A	NA
4.2 Spent catalyst	1539	MT/A	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	MT/A	NA

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Tree Plantation of 2000 no of trees by Miyawaki Method	0	0	0	0	14	0
Replacement of conventional AFC's (12 nos.) with EFRP blades in NHT CCR	0	0	0	94	30	0
LED in CDU4/CPP SRR (55+50=105 numbers)	0	0	0	1	10	0

Steam trap management RMP SRU (Train D)	19.3	0	0	0	44	0
APC implementation in GTU F-0001 for excess oxygen optimisation	0	4	0	0	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Monitoring of stacks, Noise levels, Fugitive emissions, effluent quality, Ambient Air by Approved Laboratory	Routine Environmental monitoring	40
Tree Plantation of 2000 trees by Miyawaki Method	For CO2 Sequestration	14
Disposal of Hazardous waste	Hazardous waste management rule,2016	71
Installation of 0.29 MWp solar power plant	For power saving and GHG emission reduction	150

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Tree Plantation of 3000 no of trees in and around Mumbai Region	For CO2 Sequestration	13.14

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Based on the national demand for products (HSD/MS/LOBS etc.), crude processing pattern varies leading to variation in product streams with respect to consented production quantities.

Name & Designation

ATUL VYAWAHARE

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000074103

Submitted On:

30-09-2024

सर्वात तरुण महिला वैमानिक उडविणार मिग २९

[illegible]

विधवेशनाच्या अखेरच्या दिवशी हे संरक्षण मिळावे, यासाठी पत्रकार केली होती. मुख्यमंत्र्यांनी ही मागणी मान्यतेने विधेयक ठरवा, असे म्हणत करताना हे विधेयक या अधिवेशनाच्या प्रारंभिक बैठकीतच मंडळित होते.

हे गृहकर्ज, तुमच्या हिताचे

२० वर्ष कालावधीसाठी रु. १० लाखांच्या कर्जासाठी कर्जदाराने १०.५% व्याजदराने पैसे भरण्याच्या ग्रेटर बँक देऊ करत असलेल्या ८.५% व्याजदराला तुलनेत तो रु. ३,१३,४४०/- जास्त रक्कम पदान करतो. **आताच किंवा कधीच नाही :** एप्रिल २०१६ पासून, कर्जाचे दर अधिक जळवपास एक ठरवण्याने घसरले आहेत. जागतिक आणि भारतातील आर्थिक स्थिती पाहता, नजिच्या काळात व्याज दराची पुढील कपातीची अपेक्षा नाही, तेव्हा गृह कमी घेण्यासाठी हीच सुवर्णसंधी आहे.

कर्जातील जास्त २० वर्षांचा कालावधीसाठी ८.५० टक्केच्या सवती कमी आणि फेडरल व्याजदराने ग्रेटर बँक तिचे गृह कमी देऊ करत आहेत. माहिला कर्जदारांसाठी ८.४० टक्क्यांचा विशेष व्याजदर ठरविण्यात आला आहे.

हा बदल घडवून आणू : जेव्हा बँकांनी त्यांचे दर कमी केलेले आहेत तेव्हा जुने कर्जदार अजूनही उच्च व्याजदरानेच पदान करत आहेत. ह्या कर्जदारांसाठी “स्वीच प्रोव्हर” केल्याने खरोखर मोला फरक पडतो. उदा.- २० वर्षांच्या



कालावधीच्या (ज्यापेकी ३ वर्षे पूर्ण झाली आहेत) १०.५% दराने रु. १० लाखांच्या कर्जासाठी ८.५% व्याजदराने गेटर बँकेच्या गृह कर्जात केल्याची स्विकारणारे कर्जदाराला त्याचे रु. ३,७९,३१२/- वाचता येतात.

ग्या मर्यादित कालावधीच्या प्रस्तावासाठी शुद्ध गेटर बँक हस्तांतरणावरील प्रक्रिया सुरू होईल. गेटर बँकेने माफ केले आहे. परंतु बदल करण्याचे ठरविण्यापूर्वी प्रत्येक बँक देऊ करत असलेल्या बदल परिघांची नोंद घ्यावी. निश्चितीसाठी, कर्ज थकबाकी आणि कालावधी जेजेवढा जास्त तेवढा फायदा जास्त.

टीप : ग्रेटर बँकेने सर्व गृह कर्ज हस्तांतरणावरील प्रक्रिया शुल्क माफ केले आहे. मर्यादित कालावधीची सवलत.

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हे करू नका

- दुपारी १२ ते ३ शक्यतो बाहेर जाणे अथवा फिरणे टाळा.
- मद्यसेवन, चहा, कॉफी व शीतपेय पिणे टाळा. त्यामुळे डिहायड्रेट होते.

उष्माघाताची लक्षणे

- शरीराचे तापमान ४० अंशाच्या पुढे जाणे.
- डोकेदुखी व धडधड जाणवणे.
- चक्कर, मळमळ व उलट्या होणे.
- उष्णता असूनही घाम न येणे.
- स्नायू दुखणे व गोळे येणे.
- हृदयाचे ठोके जलद पडणे.
- मनाचा गोंधळ उडणे.

PRO/11/Adv. 2017-18

VIT HAS RETAINED NO.1 POSITION AMONG THE PRIVATE ENGINEERING INSTITUTIONS IN INDIA



National Institutional Ranking Framework
Ministry of Human Resource and Development
Government of India



Institute ID	Name	City	State	Score	Rank
IR17-ENG-1-1-77	Indian Institute of Technology Madras	Chennai	Tamil Nadu	87.96	1
IR17-ENG-2-18633	Indian Institute of Technology Bombay	Mumbai	Maharashtra	87.87	2
IR17-ENG-2-18630	Indian Institute of Technology Kharagpur	Kharagpur	West Bengal	81.93	3
IR17-ENG-2-1-79	Indian Institute of Technology Delhi	New Delhi	Delhi	81.08	4
IR17-ENG-2-18248	Indian Institute of Technology Kanpur	Kanpur	Uttar Pradesh	76.83	5
IR17-ENG-2-18677	Indian Institute of Technology Roorkee	Roorkee	Uttarakhand	73.10	6
IR17-ENG-2-1-251	Indian Institute of Technology Guwahati	Guwahati	Assam	72.30	7
IR17-ENG-2-18292	Anna University	Chennai	Tamil Nadu	63.97	8
IR17-ENG-2-10326	Jadavpur University	Kolkata	West Bengal	62.59	9
IR17-ENG-2-1-345	Indian Institute of Technology Hyderabad	Hyderabad	Telangana	60.24	10
IR17-ENG-1-1-370	National Institute of Technology Tiruchirappalli	Tiruchirappalli	Tamil Nadu	59.44	11
IR17-ENG-2-1-140	National Institute of Technology Rourkela	Rourkela	Odisha	58.78	12
IR17-ENG-2-18572	Vellore Institute of Technology	Vellore	Tamil Nadu	58.16	13
IR17-ENG-2-18261	Institute of Chemical Technology	Mumbai	Maharashtra	57.97	14
IR17-ENG-2-1-346	Indian Institute of Technology Indore	Indore	Madhya Pradesh	57.70	15
IR17-ENG-2-18599	Birla Institute of Technology & Science – Pilani	Pilani	Rajasthan	55.43	16
IR17-ENG-2-18690	Indian Institute of Engineering Science & Technology, Shibpur	Howrah	West Bengal	54.42	17
IR17-ENG-1-18627	Indian Institute of Technology Bhubaneswar	Bhubaneswar	Odisha	54.32	18
IR17-ENG-2-1-344	Indian Institute of Technology Patna	Patna	Bihar	54.02	19
IR17-ENG-1-10356	Jamia Millia Islamia	New Delhi	Delhi	53.70	20

MHRD, Govt. of India has ranked VIT AS THE BEST PRIVATE ENGINEERING INSTITUTION in the country

- No.1 position amongst Private Engineering Institutions in a row in the country for the **second year in a row**
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servatories across the state have already recorded temperature above 40 degrees Celsius.

ing and then build a robot to provide solution.
"We received a total of 331

monitor the crop growth in agricultural farms and an electronic money transfer system that uses fingerprint for transactions.

trained about copyrights and intellectual property laws. They will also be mentored in entrepreneurship," said Arya.

Congestion on port road eliminated: JNPT

Jams, days-long wait had resulted in truck drivers turning violent in 2015

EXPRESS NEWS SERVICE
MUMBAI, APRIL 6

THE JAWAHARLAL Nehru Port Trust (JNPT) has claimed to have eliminated traffic congestion on roads leading to its three terminals.

A source of constant frustration for drivers of trucks delivering cargo to the terminals, who have had to spend hours in queues waiting for their documents to be verified by port officers, the JNPT administration has said a number of measures have resulted in zero traffic congestion in the past nine months.

Massive traffic jams and days-long waiting period had resulted in truck drivers turning violent in November 2015, attacking port officers and policemen, and ransacking buildings.

Identifying long queues as a focus area, JNPT chairman Anil Diggikar said the submission of hard copies of documents at the entry gate has been stopped. "We have introduced e-forms and RFID tags, so now truck drivers submit their forms online. Each truck saves at least five minutes," he said.

The port has also created a traffic management team to reg-

ulate traffic, as the local police were not able to do it on their own.

The port also introduced what is called the inter-terminal movement, allowing trucks to return to processing areas without having to travel 7.5 km on the port road to exit.

Diggikar said this has led to a 8 per cent drop in congestion on the road and fuel savings of Rs 125 crore.

On Thursday, JNPT also published its figures for financial year 2016-17, recording a marginal increase in its operating income.

Its income was Rs 1,677.90 crore in the just-concluded year, compared to Rs 1,665.10 crore in

the previous year.

Owing to an increase in fuel prices, its expenditure rose to Rs 788.49 crore, up 13 per cent from Rs 693.12 crore in 2015-16, said Neeraj Bansal, Deputy Chairman, JNPT.

In 2016-17, the port handled 4.50 million tonne equivalent units (TEUs) of container traffic, the highest since its inception. The port's own cargo terminal, the JNPT, also logged a significant rise in cargo traffic the previous year, handling 1.53 million

TEUs over 1.43 million TEUs in 2015-16.

Bansal said the first phase of the port's fourth terminal, which is being built in partnership with the Port of Singapore Authority, would be completed by December 2017, while the second phase is expected to be completed by 2023.

Each phase will increase the length of the berth by one km and is expected to add 2.4 million TEUs to the port's capacity.

EX-SERVICEMEN CONTRIBUTORY HEALTH SCHEME (ECHS)

EMPLOYMENT NOTICE

ECHS invites application for engagement of Staff as Medical Officer at ECHS Polyclinic Mumbai Upnagar, on contractual basis for a period of one year, renewable for additional period. For details visit www.echs.gov.in or call 022-25075448 before 24th April 2017.

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NOTICE OF RECORD DATE
NOTICE is hereby given pursuant to Section 91 of the Companies Act, 2013 that Monday, 24th April 2017 has been fixed as the Record Date for the purpose of payment of interest to the holders of 11.40% Unsecured Subordinated Perpetual Rated Listed Securities in the form of Non-Convertible Debentures (ISIN:INE245A08034) aggregating ₹ 1,500 crore due on 28th April 2017.

For The Tata Power Company Limited
H. M. Mistry
Company Secretary

Place : Mumbai
Dated : 6th April 2017



EMPLOYEES' PROVIDENT FUND ORGANISATION

(Ministry of Labour and Employment, Govt. of India)
REGIONAL OFFICE MUMBAI-III, KANDIVALI
Plot No. 222, BHAVISHYA NIDHI BHAVAN,
Charkop, Kandivali (West), Mumbai - 400067.

ATTENTION EMPLOYERS/EMPLOYEES/EMPLOYER REPRESENTATIVES/ EMPLOYEE REPRESENTATIVES "NIDHI AAPKE NIKAT"

Employees Provident Fund Organisation, Regional Office, Kandivali is organising a programme "Nidhi Aapke Nikat" in its office premises on 10th April, 2017 as scheduled below:

1. For Members/ claimant/ Pensioners : 10:30 Am to 12:30 Pm
2. Employers / Worker Representative/ : 3.00 Pm to 5:00 Pm

Exempted Establishments
All the employers/ members/ worker union representatives/pensioners of RO, Kandivali are invited to participate in the programme.

It is organisations endeavor to become more accessible to all its stakeholders by providing platform to approach the office for redressal of grievance/ resolving the difficulties and to educate them on IT related new innovations pertaining to online customer services/ compliance reporting.

Member/ claimants/ pensioners having grievances/ issues related to customer service may approach on this day with the relevant documents for speedy redressal. Additionally the programme will provide support/ practical demonstration on technical/ operational matters as mentioned below:

1. Uploading and approval of KYC data seeded to UAN and member's activation of UAN.
2. Organising Aadhar Camp in the premises of employers.
3. Deposit of EPF dues through Internet Banking.
4. Registration and uploading of digital signature for approval of KYC data/ online transfer applications.
5. UAN activation.
6. Registration of Digital Life Certificate.

Regional Provident Fund Commissioner
Regional Office, Kandivali

Bharat Petroleum Corporation Limited
(A Govt. of India Enterprise)

Mumbai Refinery, Mahul, Chembur, Mumbai 400074, Maharashtra

Environmental Clearance for Installation of Gasoline Hydro Treatment Unit (GTU) 0.9 MMTPA and associated facilities to produce 100% BS VI MS at Bharat Petroleum Corporation Limited, Mumbai Refinery.

Ministry of Environment, Forest & Climate Change has accorded environment clearance for Installation of Gasoline Hydro Treatment Unit (GTU) 0.9 MMTPA and associated facilities to produce 100% BS VI MS at Bharat Petroleum Corporation Limited, Mumbai Refinery vide letter number J-11011/98/2016-IA-II(I) dated 20th March 2017.

Copy of the clearance letter issued by MoEF&CC is available with the Maharashtra State Pollution Control Board and may also be seen at website of the Ministry of Environment, Forest & Climate Change at <http://www.envfor.nic.in>

This is for the information of all concerned.

Energising Lives; Energising Business

Indian Express (Mumbai) 07-04-2017 P-5



Bharat Petroleum Corporation Limited

(Refineries Division)

Mumbai Refinery, Mahul, Mumbai-400 074, Maharashtra, India

Reports on Fugitive Emission Management (Leak Detection & Repair) Survey



Study Period: December 2024

Prepared By



NITYA LABORATORIES

Address: Plot No.118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabgarh, Faridabad, Delhi
NCR, India

Tel.: +91-129-2241021

Mobile No.: +91-9873924093, +91-9013591021, +91-9013552273

E-Mail ID: info@nityalab.com

Website: www.nityalab.com

LDAR (Fugitive Emission) Survey Report for Bharat Petroleum Corporation Limited, Mumbai Refinery

Name of Client : M/s Bharat Petroleum Corporation Limited

(Refinery Division)

Mumbai Refinery, Mahul

Mumbai-400-074, INDIA

Name of Vendor : M/s Nitya Laboratories

Plot No.118, Church Road, Behind Kausik Vatika

Bhagat Singh Colony, Ballabgarh-121 004

Distt. Faridabad (Haryana) Delhi NCR, India

**Nature of Job : Conducting Fugitive Emission Survey as Part of LDAR Program at
BPCL Mumbai Refinery**

Report Period : December-2024

FOR NITYA LABORATORIES


RAJINDER MITAL
Head-Environmental Division

C O N T E N T S

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Executive Summary

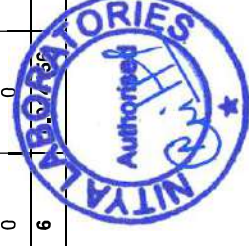
Bharat Petroleum Corporation Limited (Refineries Division) has intended to conduct the Fugitive Emission survey/Leak Detection and Repair (LDAR) program at its refinery Mumbai, Maharashtra. As a part of this program Bharat Petroleum Corporation Limited (Refineries Division) has awarded the contract to M/s Nitya Laboratories for conducting the LDAR survey for the period 08/2024 to 08/2026.

The LDAR Program at site included the detection, tagging and measurement of VOC emission from these identified points which included valves, pump seal, compressor & pressure relieve valves for the measurement for the Month December 2024.



Plant Wise Summary of VOC

TOTAL VOC EMISSION SUMMARY													
Sr. No.	Date of Monitoring	Unit Name	Pump Seal	Compressor Seal	Block valve	Control valve	Piping Flange	Exchanger flange	PSV	Total Nos of Points Monitored	Total Nos of Leakage	Total Leak (kg/hr)	Total Leak (kg/day)
1	21-12-24	FCCU	20	0	524	0	1197	21	0	1765	0	0	0
2	30-12-24	GTU	0	0	84	0	277	3	0	369	0	0	0
6	31-12-24	OLD SRU	16	0	144	0	413	6	0	582	0	0	0
4	31-12-24	RMP SRU PLANT	17	0	430	0	1054	9	0	1518	0	0	0
5	03-01-25	CCP BOILER	0	0	254	0	536	0	0	791	0	0	0
6	06-01-25	RFU	15	0	341	27	820	44	0	1176	0	0	0
7	06-01-25	ARU	14	0	268	28	724	15	0	1038	0	0	0
8	07-01-25	NHGU	0	0	87	15	232	0	0	334	0	0	0
9	07-01-25	BBU	0	0	44	0	123	0	0	168	0	0	0
10	07-01-25	CDU-3	14	0	541	0	897	11	0	1460	0	0	0
11	08-01-24	HCU	14	0	588	47	1451	12	0	2137	1	0.000728	0.017472
12	08-01-24	LOBS	4	0	443	44	1073	15	11	1565	0	0	0
13	09-01-24	DHT	26	0	886	0	2048	0	0	2987	0	0	0
14	10-01-25	PUMP HOUSE1	34	0	952	0	2199	0	0	3186	0	0	0
15	13-01-25	PUMP HOUSE2	4	0	349	0	999	0	0	1356	0	0	0
16	14-01-25	LPG PLANT	15	0	507	0	1280	0	0	1810	0	0	0
17	15-01-25	TDU GANTRY	4	0	70	0	278	0	0	352	1	0.0086456	0.02074944
18	16-01-25	CDU-4	15	0	450	0	707	0	20	1063	3	0.003046	0.073104
19	17-01-25	CCR	18	0	1127	0	2583	0	0	3740	0	0	0
20	17-01-25	CCR NHT	6	0	338	0	748	1	0	1098	0	0	0
21	21-01-25	CCU	12	0	510	0	1142	17	0	1688	1	0.001736	0.041664
22	22-01-25	DHDS	8	0	471	0	1083	7	0	1578	0	0	0
23	22-01-25	TGTU-1	0	0	10	0	24	0	0	33	0	0	0
24	22-01-25	TGTU-2	0	0	9	0	24	0	0	33	0	0	0
TOTAL			256	0	9427	161	21912	161	31	31827	6	0.001736	0.152989



BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To **M/s Bharat Petroleum Corporation Limited**

Mumbai Refinery, Mahul
Mumbai-400 074, INDIA

ULR No. : TC148142400000062F

Test Report Date: 09/11/2024

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Sampling Location : Near Solar Panel as AMS-1
Date of Sampling : 31/10/2024
Time of Sampling (Hrs) : 11:10 AM
Sample Received at Lab : 04/11/2024
Test Started On : 04/11/2024
Test Completed On : 08/11/2024
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Avg. Flow Rate of Air for RDS (m3/min) : 1.12
Avg. Flow Rate of Air for FPS (m3/hr) : 1.00
Ambient Temperature (°C) : 32
Sampling Duration (Hrs.) : 24 Hrs.
Monitoring Conducted By : Nitya Laboratories

Instrument Details

Model No. of PM10 : AAS 217 BL
Serial No. of PM10 : 14-L-222
Model No. of PM2.5 : AAS 127
Serial No. of PM2.5 : 14-I-340
Calibration Date : 30/11/2023
Calibration Due Date : 29/11/2024

Details of Accreditation

Date of Accreditation : 05/11/2024
Due Date of Accreditation : 04/11/2028

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	31.20	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	62.40	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	16.20	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂), µg/m ³	23.40	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), µg/m ³	20.10	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/m ³	ND	1	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m ³	1.20	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), µg/m ³	32.50	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m ³	ND	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m ³	ND	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m ³	ND	1	Annual	IS:5182 (P-12)
12.	Benzene (C ₆ H ₆), µg/m ³	ND	5	Annual	IS:5182 (P-11)

Remark:

*NAAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2009

ND-Not Detected, ³Arsenic-ND [DL- 0.5], ⁴BAP-ND [DL- 0.5], ⁵Benzene-ND [DL-0.5], ⁶Nickel-ND [DL- 1.0], Nitrogen Dioxide- ND [DL-5], Ozone-ND [DL-10],
Ammonia-ND (DL-5), Carbon Monoxide-ND(DL-0.1)



TC-14814

(AUTHORISED SIGNATORY)

(RAJINDER MITTA)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To **M/s Bharat Petroleum Corporation Limited**
Mumbai Refinery, Mahul
Mumbai-400 074, INDIA

ULR No. : TC148142400000063F
Test Report Date: 09/11/2024

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Sampling Location : Near Canteen as AMS-2
Date of Sampling : 31/10/2024
Time of Sampling (Hrs) : 10:10 AM
Sample Received at Lab : 04/11/2024
Test Started On : 04/11/2024
Test Completed On : 08/11/2024
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Avg. Flow Rate of Air for RDS (m³/min) : 1.14
Avg. Flow Rate of Air for FPS (m³/hr) : 0.99
Ambient Temperature (°C) : 32
Sampling Duration (Hrs.) : 24 Hrs.
Monitoring Conducted By : Nitya Laboratories

Instrument Details

Model No. of PM10 : AAS 217 BL
Serial No. of PM10 : 14-L-222
Model No. of PM2.5 : AAS 127
Serial No. of PM2.5 : 14-I-340
Calibration Date : 30/11/2023
Calibration Due Date : 29/11/2024

Details of Accreditation

Date of Accreditation : 05/11/2024
Due Date of Accreditation : 04/11/2028

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	37.20	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	64.50	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	20.58	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂), µg/m ³	28.40	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), µg/m ³	25.10	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/m ³	ND	1	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m ³	1.22	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), µg/m ³	37.50	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m ³	ND	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m ³	ND	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m ³	ND	1	Annual	IS:5182 (P-12)
12.	Benzene (C ₆ H ₆), µg/m ³	ND	5	Annual	IS:5182 (P-11)

Remark:

*NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec 3(1)(ii)] of the Environment Protection Act, 1986
ND-Not Detected, ³Arsenic-ND [DL- 0.5], ⁴BAP-ND [DL- 0.5], ⁵Benzene-ND [DL- 0.5], ⁶Nickel-ND [DL- 1.0], ⁷Nitrogen Dioxide-ND [DL- 80], ⁸Ozone-ND [DL-10],
Ammonia-ND (DL-5), Carbon Monoxide-ND(DL-0.1)



TC-14814



(AUTHORIZED SIGNATORY)

(RAVINDER MITTAL)

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CREP action points for oil refineries:

CREP Point	BPCL reply
A) Air Pollution Management	
All refineries located in the critically pollution areas, identified by CPCB, will submit an action plan for phase wise reduction of SO ₂ emissions. Future Refineries will have SRU with minimum 99 % efficiency. To enhance the efficiency of SRUs in the existing refineries, an expert committee will be constituted to look into the various aspects and suggest a road map.	BPCL Mumbai Refinery has installed Sulfur Recovery Units for recovering sulfur from sour gases. In 2017, Tail Gas Treatment Units have been commissioned which has improved sulfur recovery efficiency to 99.99 %.
With regard to NO _x emission, the new refinery/ process units will be installed to low NO _x burners. For retrofitting of low NO _x burners in existing units, the expert committee will suggest the strategies and action plan including NO _x std.	All process units in BPCL MR have been equipped with Low NO _x burners.
The flare losses will be minimized and monitored regularly.	BPCL Mumbai Refinery has provided Flare recovery system where flare gases are recovered and treated in Fuel Gas treatment unit. After removing H ₂ S, treated flare gases are diverted to fuel gas system for burning into furnace.
Refineries shall install CEMS for SO _x , NO _x in major stacks with proper calibration facilities	As per CPCB guideline, all refinery stacks have been provided with Sox, NO _x , CO and SPM analyzers with proper calibration facilities. Stack analyzer details are continuously transmitted to CPCB/ MPCB server on real time basis. Also as per recent CPCB direction, dynamic limits have been incorporated for mixed fuel fired furnace.
Refineries will also monitor total HC and benzene in the premises (particularly at Loading-Unloading operations and ETP).	Ambient air quality monitoring is carried out on regular basis through MOEF approved and NABL accredited third party LAB. AMS are connected to MPCB/CPCB servers and data is transmitted on real time basis. Benzene/Toluene/Hexane vapour recovery system has been provided at product dispatch unit. N ₂ blanketing facility has been provided for Benzene and Toluene Storage tanks. Bottom loading facility has been provided for Benzene and Toluene product dispatch. ETP sub units have been covered with VOC removal system. LDAR survey is carried out as per GSR 186 (E) in TDU and ARU complex on quarterly basis.
B) Waste water management	
Refineries will prepare action plan for conservation of water resources and maximize reuse recycling of treated effluent. The treated effluent discharge (excluding once through cooling tower) will be limited to 0.4 m ³ / tone (for 90 % of time) except for the season.	BPCL Mumbai Refinery is "Zero Liquid discharge" refinery and process water is treated in Effluent Treatment Plant (ETP). Treated water is reused in process cooling towers. Analyzers for monitoring BOD, COD, TSS & PH at ETP outlet have been provided with provision of continuous data transmission to CPCB/ MPCB. ETP subunits have been covered and VOC removal system has been installed.

Oil spill response facilities at coastal refineries will be in position. To facilitate this MoEF will coordinate with Coast Guards, Port Trust and departments.	Agreement between MbPT / JNPT and participating oil companies for providing Tier – 1 Oil Spill Response (OSR) facilities at Mumbai port, has been signed. However, the contract for providing Tier -1 OSR facilities has been given to M/s Sadhav Shipping. Also, BPCL MR participates regularly in OSR mock drills conducted by MbPT. Risk assessment has been carried out by MbPT through third party for OSR. Meeting is arranged by MBPT with participating oil companies to liquidate the recommendations arising out the risk assessment. MbPT has also initiated action for new OSR contracts at Mumbai Port area.
Solid waste management	
Refineries will explore new technologies for reduction in the generation of oils sludge strategy.	At BPCL MR, oily sludge is processed for oil recovery with the help of third party contract. Residual sludge with around 10% wt oil content is treated with bioremediation process using bioremediation agent/ Bacteria to reduce total petroleum hydrocarbon (TPH) below 0.5% wt.
The petroleum coke having high sulfur content will be sold to/ reused by organized industries (having consent from SPCB) which have system to control SO₂ emissions.	Not Applicable